

# **un acercamiento a la aplicación de los sistemas expertos (SE) de inteligencia artificial (IA) al campo de la bibliotecología, documentación y ciencias de la información documental**

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## **Resumen**

Este trabajo es un acercamiento teórico e histórico sobre los sistemas expertos (SE) de inteligencia artificial (IA) y adicionalmente esboza sus posibles aplicaciones al campo de la bibliotecología, documentación y ciencias de la información documental. En el aspecto práctico se realizaron diversas búsquedas bibliográficas para intentar cubrir toda la literatura científica publicada en el mundo y registrada por bases de datos bibliográficas científicas como las los sistemas Dialog, Silver Platter, Ovid y otras, que a su vez fueron organizadas en el software Reference Manager; se encontraron 133 registros pertinentes a la temática de los cuales sólo 20 documentos se encontraron en texto completo en las bibliotecas del ITESM Campus Monterrey y de la Universidad de Monterrey.

## **INTRODUCCION**

Como el título lo indica, este trabajo es un acercamiento a la aplicación de los sistemas expertos (SE) de inteligencia artificial (IA) al campo de la bibliotecología, documentación y ciencias de la información. Mas tendría que agregarle que uno muy somero.

En su realización aprendí bastante. Tanto en lo teórico como en lo práctico. Por lo teórico significo conocimientos nuevos sobre el tema, por lo práctico dominio del sistema Reference Manager ® y diversos softwares de aplicación: internet, importacion de archivos, etc.

Pero aclaro que me hubiera gustado haber realizado un ensayo más a conciencia. Pero fueron precisamente esos enormes cúmulos de conocimientos teórico-prácticos los que me impidieron haber realizado un mejor ensayo. De hecho el dominio del Reference Manager ® fue difícil. Lo más difícil, y que de hecho ni yo ni mis compañeras logramos, fue la captura de registros provenientes de algunos sistemas que no pertenecían al catálogo del RM ®, por más que intenté por todos los medios no pude importarlos. Sólo pude importar los de Education Index y Educational Resources Information Center de SilverPlatter ®. Los del Global Books in Print de Bowker los anexé en este disquete en la ruta: a:\bibnacio\addenda\fuzzylog\\*. \* (véase).

Finalmente encontré --al decir de Nuria Amat-- 133 registros pertinentes, de los cuales solo 20 se localizaban en las bibliotecas de la localidad; a decir verdad sólo en el ITESM-CIB y UDEM-BC, donde la primera es donde hubo mayores ocurrencias.

En la sección de estrategias de búsqueda se puede ver palmariamente todos los intentos y combinaciones de terminología de thesaurus, descriptores, palabras clave, etc. para lograr sólo la información más precisa.

Agradezco a la empresa Educomsa, S.A. de C.V. (Alpes 2580-A, Col. Obispado, Monterrey, N.L. Tel. 333 60 96 e-mail: bpemty@infosel.net.mx) por facilitarme las bases antemencionadas; al Sr. Adolfo Martínez por sus asesorías en el RM ®, pero sobre todo a nuestro maestro Lic. Ibarra por guía y sugerencia del tema.

## **CUERPO DE LA OBRA INTELIGENCIA ARTIFICIAL (IA)**

### **I. Definición:**

La expresión IA ha sido muy controvertida y se ha prestado a numerosas confusiones e interpretaciones erróneas como la noción de inteligencia es en

sí misma compleja y relativa, no es fácil definir la disciplina científica que es la IA.

La IA puede ser abordada desde dos puntos de vista complementarios:

1. El primero concierne a los mecanismos de la inteligencia, y utilizar la computadora como medio de simulación para verificar un modelo o una teoría. Este punto de vista implica una perspectiva cognitiva.
2. El segundo, más pragmático, concierne a los esfuerzos realizados para dotar la computadora de las capacidades que habitualmente se atribuyen a la inteligencia humana, como por ejemplo, la adquisición de conocimientos, la percepción (visión, audición), el razonamiento, la toma de decisiones. Este segundo punto de vista es el que se encuentra más comúnmente. Consiste en emular, mediante un programa de computadora, comportamientos inteligentes sin reproducir, sin embargo, el funcionamiento correspondiente del ser humano.

Los dos enfoques precedentes son de hecho ampliamente complementarios en la medida en que un mejor conocimiento de los mecanismos humanos permite mejorar el rendimiento de los sistemas informáticos. La IA aparece así como una rama avanzada de la informática, cuyas técnicas utiliza; la informática, por su parte, asimila progresivamente las adquisiciones de la IA. Esto no reduce de ningún modo el carácter multidisciplinario que es una encrucijada de numerosas ciencias y técnicas.

La IA se ha convertido en una realidad en la década de los 80, tanto en el plano académico, gracias a muchos miles de investigadores y de docentes de todo el mundo como en el plano económico, a través de aplicaciones bien logradas, empresas especializadas en este campo y proyectos de investigación y desarrollo de gran envergadura.

## **II. Reseña histórica.**

Nacimiento. La IA nació en agosto de 1956, fecha en la que una conferencia llevada a cabo en Dartmouth, Estados Unidos, reunió a un conjunto de científicos de alto nivel, entre ellos J. McCarthy, M. Minsky, C. Shannon, A. Newell y H. Simon, quienes se propusieron estudiar la posibilidad de realizar programas de computadora dotados de inteligencia. La expresión Artificial Intelligence, forjada en esa ocasión, perduró a pesar de sus defectos y de la oposición de ciertos investigadores como Newell y Simon.

Los primeros programas de IA también aparecieron en esa época (un demostrador de teoremas de lógica, el *Logic Theorist*, y un programa de ajedrez, ambos de Newell y Simon), como también *LISP*, “lenguaje-guía” de la IA. En el plano científico, los desarrollos teóricos y prácticos sobre autómatas, por una parte, y los trabajos de lógica matemática, por otra, constituyen sus fundamentos.

Otros teóricos connotados son: Babbage, Turing, Wiener; Leibniz, Boole, Hilbert, Godel y Church.

### **III .- Características esenciales de la IA**

Los campos que aborda la IA son múltiples. Sin embargo, existe un conjunto de puntos comunes entre todos los sistemas de la IA que permiten distinguir especialmente las características más importantes de esta disciplina.

Un programa de IA se caracteriza por el hecho de que manipula mucho más informaciones simbólicas que números, como sucede en la informática “clásica”.

Estas informaciones representan conceptos, reglas, objetos, hechos, idénticos a los que habitualmente tienen en cuenta un ser humano cuando razona. Esto no excluye, por supuesto, la utilización de procedimientos que implican tratamiento numérico, pero la explotación de los resultados se hará, generalmente, en forma simbólica. Así, un sistema de ayuda para diagnóstico médico deducirá del valor numérico 38, 20C que el paciente está ligeramente afiebrado.

Una segunda noción común en la IA es la de los métodos heurísticos (“que ayudan a encontrar”, del griego  $\epsilon\upsilon\omicron\rho\upsilon\varsigma$  : encontrar), por oposición a los métodos algorítmicos clásicos. Un algoritmo, codificado en un lenguaje de programación para proporcionar un programa, consiste en una descripción exhaustiva de la secuencia de operaciones que hay que llevar a cabo para resolver un problema dado. Un heurístico es un método de resolución que toma vías no determinadas y cuyo éxito no está asegurado, pero que cuando “marcha” bien, a menudo permite una gran economía de tiempo de cálculo. En caso de fracasar, es necesario volver a atrás y ensayar otra solución. La búsqueda heurística de una solución a un problema consiste a menudo en “podar” el conjunto de caminos de resolución posibles para no encarar sino aquellos que más prometen.

La utilización de los métodos heurísticos es muy frecuente en la IA. Permite abordar problemas que no pueden tratarse por los métodos algorítmicos tradicionales:

- los problemas sin solución algorítmica conocida, muy comunes en diversos campos de la actividad humana: percepción, toma de decisiones, diseño;
- los problemas cuya solución algorítmica es una complejidad demasiado grande para los medios informáticos disponibles. Un ejemplo típico es el de los juegos, en particular el de ajedrez.

Otra peculiaridad de la IA es la de acomodarse a situaciones en la que los datos y las informaciones tratados son incompletos, inexactos, es decir,

conflictivos. Aunque no resuelva totalmente este problema, muy arduo, la IA proporciona, no obstante, métodos eficaces, especialmente en forma de técnicas de razonamiento aproximativo o no monótono, etcétera.

Una noción muy importante de la IA es la noción de *conocimiento*. Mientras que en sus comienzos los investigadores intentaban descubrir mecanismos generales para la resolución de problemas, la IA actual se “conforma” con concebir sistemas capaces de resolver problemas en campos reducidos y bien delimitados, basándose en una gran cantidad de conocimiento propio de esos campos. Debe reconocerse que este conocimiento se encuentra precisamente en el hombre: un experto reconocido posee en el área de su actividad muchos conocimientos y gran experiencia. Estos conocimientos a menudo son suministrados al sistema de IA de manera declarativa, mucho más cercana a su forma natural que cuando son codificados como procedimientos en un lenguaje de programación. Los sistemas basados en conocimiento, y especialmente los sistemas expertos SE, constituyen un elemento principal en el edificio actual de la IA.

Finalmente, la IA es, en esencia, multidisciplinaria. La realización de un sistema reclama las técnicas avanzadas de la informática (sus necesidades específicas requieren incluso el desarrollo de lenguajes y máquinas propios). Pero la IA nutre igualmente sus raíces en otras disciplinas: lógica y psicología cognitiva (para los fundamentos de la representación del conocimiento y del razonamiento), lingüística, (para el procesamiento del lenguaje natural escrito y hablado), ergonomía, filosofía... neurociencias y biología.

### **Los campos de la IA:**

1. Demostración automática de teoremas.
2. Procesamiento del lenguaje natural escrito.
3. Procesamiento (reconocimiento y comprensión) del habla.
4. Interpretación de imágenes y visión por computadora.
5. Robótica.
6. Juegos.
7. Sistemas Expertos (SE).

Tomado de Haton y Haton (1991)

## **SISTEMAS EXPERTOS**

Se denomina Inteligencia Artificial (IA) a la parte de la Informática que trata del diseño de sistemas computarizados, inteligentes, sistemas que muestran las características que pueden asociarse a la inteligencia en lo que se refiere al comportamiento humano: comprensión del lenguaje, aprendizaje, razonamiento, resolución de problemas, etc.

La IA investiga las relaciones entre los sistemas de información y las capacidades de las computadoras. Pero desde el punto de vista documental de la IA nos interesan sus resultados y productos: aquellos sistemas que permiten o permitirán llevar a cabo una conversación inteligente con la máquina.

En el camino hacia la IA se encuentran los Sistemas Expertos (SE) que pueden definirse como sistemas que proporcionan los conocimientos de un experto en un tema limitado. Debido a lo cual se les llama programas de consulta.

Los sistemas expertos, que aparecieron hace relativamente poco tiempo (al comienzo de los años 70) son capaces de alcanzar las ejecuciones de los expertos humanos en diversos tipos de tareas (diagnóstico, asesoramiento, planificación, concepción), realizados en campos restringidos. El conocimiento utilizado por un SE en el curso de su razonamiento se adquiere previamente, proporcionado por expertos, y es formalizado e introducido en una base de conocimiento.

El usuario de un SE introduce un problema en la máquina y recibe como respuesta un serie de preguntas del SE. El resultado es una recomendación por parte de este último al usuario para que realice una acción determinada, una conclusión o un juicio.

### **La IA en la recuperación automática de la información.**

La importancia de la IA para la recuperación automática de la información es obvia. La búsqueda de la información hemos visto que consiste en acceder a los documentos pertinentes, al texto de los mismos y a sus conocimientos. Los SE, pues, producirán sistemas capaces de leer los documentos, entender lo que estos dicen, además de realizar preguntas al usuario sobre los mismos.

La aplicación de la IA en la búsqueda bibliográfica parte de cuatro categorías esenciales:

1. Comunicación entre las personas y las bases de datos.
2. Indización conceptual (técnicas de organización de las bases de datos de acuerdo con todos los significados posibles de todos los conceptos)
3. Entrada automática de datos (sistema capaz de leer un texto y planificar su contenido de acuerdo con la estructura de los conocimientos de cada base de datos particular)

4. Técnicas activas de memorización (cuyo resultado serían estructuras de almacenamiento activo en las que todo se haya almacenado de forma explícita, y lo que no se encuentre explícitamente puede ser reconstruido o deducido)

La IA tiende a permitir que los datos o párrafos de un texto relevantes para el usuario que los necesita en cada caso particular, puede ser localizado en una base de datos y aplicarse a la resolución de un problema.

Además, los usuarios de estos SE de IA pueden acceder a un gran abanico de diferentes tipos de información: texto o documentos originales, comentarios acerca de ellos, preguntas anticipadas sobre los mismos, etc. a través de un diálogo interactivo llevado a cabo mediante el lenguaje coloquial común (español, inglés, etc.).

Se prevé, entonces que todo el proceso de información de Input (lectura de documentos, análisis, indización, codificación y almacenamiento) y Output (pregunta, tratamiento, edición y lectura de referencias) lo realice la máquina gracias al SE.

- El ordenador escribirá por sí solo la ecuación de búsqueda.
- El ordenador hará preguntas al usuario para que explique su búsqueda.
- El ordenador proporcionará en mayor medida la información que contienen los documentos que los documentos mismos. Es decir, los conocimientos integrados en los documentos.

### **La IA como productora de información científica.**

Respecto a quienes no disponen de tiempo para leer aquellos documentos que deberían conocer, ni tampoco de medios para mandar traducir los publicados en idiomas extraños, las máquinas inteligentes que trabajarán con programas aplicados a la Documentación Científica parecen que han encontrado la solución idónea.

Si es práctica corriente el acceso a la información por medios telemáticos, todo usuario de estos servicios sabe de antemano que el resultado de su consulta bibliográfica online consiste en una lista de documentos que responden a su petición. El receptor obtendrá 10, 50, 100 o más documentos que escritos en lenguas diversas contienen la información que le interesa. Ello implica la tarea de leer aquellos artículos, libros o informes seleccionados por el ordenador previa consulta del interesado. Sea por razones de costes de comunicación o imposibilidad de dedicar parte de su tiempo a la lectura de los originales, o por la suma de ambas, el usuario acostumbra a quejarse de esta labor que debe llevar a cabo por sí mismo.

La IA permite eliminar este problema mediante la puesta a punto de los SE o programas de elaboración artificial de textos. En cuanto al resultado final, la

diferencia básica de estos nuevos sistemas con los anteriores reside en que la máquina proporciona un nuevo texto elaborado por ella misma en lugar de aquellos documentos que contienen la información de forma aleatoria y dispersa. La tarea de visualizar las referencias, conseguir los originales uno a uno para seleccionar su contenido, la realizará la máquina, y de ese modo el usuario obtendrá un documento nuevo, "original" en cierto sentido, que será nada más y nada menos que la síntesis de todos aquellos documentos introducidos en la base de datos y que responden a las características de la consulta.

En el caso por ejemplo, que versara sobre máquinas superinteligentes y escritores superinteligentes, la respuesta que proporcionaría la computadora consistiría en un texto con características similares al que estoy redactando en el supuesto de que para escribirlo me hubiera basado en la síntesis de varios documentos publicados y memorizados sobre el tema. Si hasta hoy obteníamos referencias bibliográficas y sus correspondientes originales, a partir de ahora provistas de sistemas inteligentes ya son capaces de producir tantos documentos como usuarios sean los que los soliciten.

Al escritor o productor científico le bastará con pedir a la máquina que le redacte aquella conferencia o aquel ensayo o aquel artículo que corresponda a las claves de contenido que este le proporciona. Es decir la creatividad de un autor podría quedar limitada, en el peor de los casos, a la inserción del título de su exposición y en cuanto al usuario que necesite información para utilizarla en su trabajo productivo concreto, éste tiene ya resuelto su problema de lectura (Amat, 1987, p. 512-514).

## **RECURSOS Y ASOCIACIONES**

### **AI Resources & Organizations**

#### **AI Resources:**

- AI FAQ
- CMU Artificial Intelligence Repository
- KD AI Resources on the Internet
- KSL Artificial Intelligence Resources
- WWW Virtual Library AI Resources

#### **AI Organizations:**

- AI Group (CS Dept. University of Geneva)
- AI Lab Home Page (clarkson.Edu)
- Austrian Research Institute for Artificial Intelligence
- CIM Home Page
- CMU Advanced Manipulators Lab
- Georgia Tech - Artificial Intelligence
- Georgia Tech Cognitive Science
- IASC department



IMAG - Artificial Intelligence  
Intelligent Systems Application Center (ISAC)  
Intelligent Systems Program  
Intelligent Systems Research Group (berkeley.Edu)  
IRST Knowledge Representation and Reasoning Laboratory at IRST  
Korea - Center for AI Research  
Lancaster University - Applied AI/AI in Education Group  
Millersville University Intelligent Machines Lab  
Mississippi State Intelligent Systems Lab  
MIT AI lab Web home page  
MIT Media Lab Machine Listening Group  
NASA Ames - Computational Sciences Division  
National Research Council, Knowledge Systems Laboratory  
Navy Center for Applied Research in Artificial Intelligence  
Ohio State - Lab for Artificial Intelligence Research  
Simon Fraser University - Intelligent Software Group  
The Distributed Artificial Intelligence Laboratory  
The Intelligent Perception and Action Lab  
University of Alabama Huntsville - Intelligent Systems Laboratory  
University of Chicago - Artificial Intelligence  
University of Massachusetts Experimental Knowledge Systems Laboratory  
University of Toronto - Enterprise Integration Laboratory  
University of Trondheim - Activities in Artificial Intelligence  
University of Washington Artificial Intelligence Research  
University of Waterloo LPAIG

[ Return to Computer Resources

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Harmon, Paul y King, David. (1988). *Sistemas expertos: aplicaciones de la inteligencia artificial en la actividad empresarial*. Madrid: Ediciones Díaz de Santos, 373 p.

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Partridge, Derek y Wilks, Yorick. Ed. (1989) *The foundations of artificial intelligence: A sourcebook*. New York: Cambridge University Press, 498 p.

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## Bibliografía de ejercicio como parte del trabajo

Incluye 133 registros

TY - JOUR  
ID - 2  
A1 - Kranch,D.A.  
T1 - Teaching artificial intelligence and expert systems: concepts in library curricula  
JF - Journal of Education for Library and Information Science  
Y1 - 1992/ / Winter  
VL - 33  
SP - 18  
EP - 34  
RP - Not in File  
KW - Library science Curriculum  
KW - Artificial intelligence  
KW - Expert systems  
AV - Education Index de SilverPlatter  
N1 - 0748-5786 English 92007737  
ER -

TY - JOUR  
ID - 3  
A1 - Young,R.J.,1942-  
T1 - Artificial intelligence and school library media centers  
JF - School Library Media Quarterly  
Y1 - 1990/ / Spring  
VL - 18  
SP - 150  
EP - 157  
RP - Not in File  
KW - Artificial intelligence  
KW - Expert systems  
KW - Hypertext  
KW - CD ROM  
AV - Education Index de SilverPlatter  
N1 - bibl 0278-4823 English 90009148  
ER -

TY - JOUR  
ID - 4  
A1 - Henderson,D.  
A1 - Martin,P.  
A1 - Mayer,L.  
T1 - Rules and tools in library schools  
JF - Journal of Education for Library and Information Science  
Y1 - 1989/ / Winter  
VL - 29  
SP - 226  
EP - 227  
RP - Not in File  
KW - Expert systems  
KW - Libraries Reference services  
KW - Reference books Teaching  
AV - Education Index de SilverPlatter  
N1 - 0748-5786 English 89007940  
ER -

TY - JOUR  
ID - 5  
A1 - Woo,J.  
T1 - Expert systems not yet clones of librarians  
JF - American Libraries  
Y1 - 1988/ /Dec.  
VL - 19  
SP - 934  
EP - 934  
RP - Not in File  
KW - Expert systems  
KW - Library and Information Technology Association US Meetings 1988  
KW - Libraries Automation  
AV - ITESM-Centro de Información Biblioteca y Education Index de SilverPlatter  
N1 - il 0002-9769 English 88026380  
ER -

TY - JOUR  
ID - 6  
A1 - Epstein,H.,1934-  
T1 - An expert system for novice MARC catalogers  
JF - Wilson Library Bulletin  
Y1 - 1987/ /Nov.  
VL - 62  
SP - 33  
EP - 36  
RP - Not in File  
KW - Expert systems  
KW - Cataloging Computer programs  
KW - Marc system  
AV - Education Index de SilverPlatter  
N1 - Augmented title: MITINET il 0043-5651 English 87025859  
ER -

TY - JOUR  
ID - 7  
A1 - Kesselman,M.A.  
T1 - Online update  
JF - Wilson Library Bulletin  
Y1 - 1987/ /Oct.  
VL - 62  
SP - 49  
EP - 50  
RP - Not in File  
KW - Artificial intelligence  
KW - Expert systems  
AV - Education Index de SilverPlatter  
N1 - Augmented title: applied artificial intelligence 0043-5651 English 87025503  
ER -

TY - JOUR  
ID - 8  
A1 - Molholt,P.

T1 - The information machine: a new challenge for librarians  
JF - Library Journal  
Y1 - 1986/ /Oct. 1  
VL - 111  
SP - 47  
EP - 52  
RP - Not in File  
KW - Information systems  
KW - Expert systems  
KW - Libraries Reference services  
AV - UDEM-Biblioteca Central y Education Index de SilverPlatter  
N1 - il 0363-0277 English 86021403  
ER -

TY - JOUR  
ID - 9  
A1 - Mason,R.M.,1941-  
T1 - Artificial intelligence: promise, myth and reality  
JF - Library Journal  
Y1 - 1996/ /Oct. 1  
VL - 121  
SP - S6+  
RP - Not in File  
KW - Artificial intelligence  
AV - UDEM-Biblioteca Central y Education Index de SilverPlatter  
N1 - Augmented title: reprinted from April 15, 1985 issue 0363-0277 English 96028194  
ER -

TY - JOUR  
ID - 12  
A1 - Smith,L.C.,1949-  
T1 - Artificial intelligence: relationships to research in library and information science  
JF - Journal of Education for Library and Information Science  
Y1 - 1989/ /Summer  
VL - 30  
SP - 55  
EP - 56  
RP - Not in File  
KW - Artificial intelligence  
AV - Education Index de SilverPlatter  
N1 - 0748-5786 English 89015975  
ER -

TY - JOUR  
ID - 13  
A1 - Byles,T.  
T1 - Literate machines: the shape of things to come  
JF - Wilson Library Bulletin  
Y1 - 1988/ /Feb.  
VL - 62  
SP - 47  
EP - 49  
RP - Not in File  
KW - Text processing Computer science

KW - Artificial intelligence  
KW - Language data processing  
KW - Database management  
AV - Education Index de SilverPlatter  
N1 - 0043-5651 English 88005799  
ER -

TY - JOUR  
ID - 15  
A1 - Mason,R.M.,1941-  
T1 - Artificial intelligence: promise, myth, and reality  
JF - Library Journal  
Y1 - 1985//Apr. 15  
VL - 110  
SP - 56  
EP - 57  
RP - Not in File  
KW - Artificial intelligence  
AV - UDEM-Biblioteca Central y Education Index de SilverPlatter  
N1 - 0363-0277 English 85011972  
ER -

TY - JOUR  
ID - 16  
A1 - Surprenant,T.T.,1942-  
T1 - Future libraries  
JF - Wilson Library Bulletin  
Y1 - 1983//Nov.  
VL - 58  
SP - 206  
EP - 7+  
RP - Not in File  
KW - Artificial intelligence  
AV - Education Index de SilverPlatter  
N1 - Augmented title: fifth generation computers 0043-5651 English 84000863  
ER -

TY - JOUR  
ID - 17  
A1 - Kranch,D.A.  
T1 - Teaching artificial intelligence and expert systems: concepts in library curricula  
JF - Journal of Education for Library and Information Science  
Y1 - 1992//Winter  
VL - 33  
SP - 18  
EP - 34  
RP - Not in File  
KW - Artificial intelligence  
KW - Expert systems  
KW - Library science Curriculum  
AV - Education Index de SilverPlatter  
N1 - 0748-5786 English 92007737  
ER -

TY - JOUR  
ID - 18  
A1 - Weiss,P.J.  
T1 - The Expert Cataloging Assistant Project at the National Library of Medicine  
JF - Information Technology and Libraries  
Y1 - 1994/ /  
VL - 13  
SP - 267  
EP - 271  
RP - Not in File  
AV - ITESM-Centro de Información Biblioteca y Educational Resources Information Center de SilverPlatter  
ER -

TY - JOUR  
ID - 19  
A1 - Hawks,C.P.  
T1 - Expert Systems in Technical Services and Collection Management  
JF - Information Technology and Libraries  
Y1 - 1994/ /  
VL - 13  
SP - 203  
EP - 212  
RP - Not in File  
KW - Expert systems  
AV - ITESM-Centro de Información Biblioteca y Educational Resources Information Center de SilverPlatter  
ER -

TY - JOUR  
ID - 20  
A1 - Denning,R.  
A1 - Smith,P.J.  
T1 - Interface Design Concepts in the Development of ELSA, an Intelligent Electronic Library Search Assistant  
JF - Information Technology and Libraries  
Y1 - 1994/ /  
VL - 13  
SP - 133  
EP - 147  
RP - Not in File  
AV - ITESM-Centro de Información Biblioteca y Educational Resources Information Center de SilverPlatter  
ER -

TY - JOUR  
ID - 21  
A1 - Duval,B.K.  
A1 - Main,L.  
T1 - Expert Systems: What Is an Expert System?  
JF - Library Software Review  
Y1 - 1994/ /  
VL - 13  
SP - 44

EP - 53  
RP - Not in File  
KW - Expert systems  
ER -

TY - JOUR  
ID - 22  
A1 - Gunning,K.  
A1 - And Others  
T1 - Networked Electronic Information Systems at the University of Houston Libraries: The IRIS Project and Beyond  
JF - Library Hi Tech  
Y1 - 1993/ /  
VL - 11  
SP - 49  
EP - 55,83  
RP - Not in File  
KW - Information systems  
ER -

TY - JOUR  
ID - 23  
A1 - Richardson,J.A.  
A1 - And Others  
T1 - MultiLIS: 21 Years in the Making  
JF - Library Hi Tech  
Y1 - 1993/ /  
VL - 11  
SP - 21  
EP - 48  
RP - Not in File  
ER -

TY - JOUR  
ID - 24  
A1 - McCrank,L.J.  
T1 - Reference Expertise: Paradigms, Strategies, and Systems  
JF - Reference Librarian  
Y1 - 1993/ /  
SP - 11  
EP - 42  
RP - Not in File  
ER -

TY - JOUR  
ID - 25  
A1 - Hawks,C.P.  
T1 - In Support of Collection Assessment: The Role of Automation in the Acquisitions and Serials Departments  
JF - Journal of Library Administration  
Y1 - 1992/ /  
VL - 17  
SP - 13  
EP - 30

RP - Not in File  
ER -

TY - JOUR  
ID - 26  
A1 - Borah,E.G.  
T1 - Beyond Navigation: Librarians as Architects of Information Tools  
JF - Research Strategies  
Y1 - 1992/ /  
VL - 10  
SP - 138  
EP - 142  
RP - Not in File  
ER -

TY - JOUR  
ID - 27  
A1 - Entlich,R.  
A1 - And Others  
T1 - Enhancing the Processing Environment: The Development of a Technical Services Workstation  
JF - Information Technology and Libraries  
Y1 - 1992/ /  
VL - 11  
SP - 324  
EP - 338  
RP - Not in File  
ER -

TY - JOUR  
ID - 30  
A1 - Jeng,L.H.  
T1 - Networking and Transformation of Cataloging Expertise  
JF - Proceedings of the Asis Mid Year Meeting  
Y1 - 1992/ /  
SP - 181  
EP - 192  
RP - Not in File  
ER -

TY - JOUR  
ID - 31  
A1 - Gunning,K.  
T1 - The Intelligent Reference Information System: The Effect on Public Services of Implementing a CD-ROM LAN and Expert System  
JF - Library Administration & Management  
Y1 - 1992/ /  
VL - 6  
SP - 146  
EP - 153  
RP - Not in File  
KW - Information systems  
KW - CD ROM  
KW - Expert systems  
ER -



TY - JOUR  
ID - 32  
A1 - Buboltz,D.  
A1 - And Others  
T1 - Teaching Library Skills for the 1990s  
JF - Book Report  
Y1 - 1991//  
VL - 10  
SP - 13  
EP - 15,17,19  
RP - Not in File  
ER -

TY - JOUR  
ID - 33  
A1 - DeBrower,A.M.  
A1 - Jones,D.T.  
T1 - Application of an Expert System to Collection Development: Donation Processing in a Special Library  
JF - Library Software Review  
Y1 - 1991//  
VL - 10  
SP - 384,386  
EP - 89  
RP - Not in File  
ER -

TY - JOUR  
ID - 34  
A1 - Morris,A.  
T1 - Expert Systems for Library and Information Services--A Review  
JF - Information Processing and Management  
Y1 - 1991//  
VL - 27  
SP - 713  
EP - 724  
RP - Not in File  
KW - Expert systems  
ER -

TY - BOOK  
ID - 35  
A1 - Lancaster,F.W.,Ed  
A1 - Smith,L.C.,Ed  
T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)  
Y1 - 1992//  
RP - Not in File  
KW - Artificial intelligence  
KW - Expert systems  
ER -

TY - JOUR

ID - 36

A1 - Kuhlman,J.R.

T1 - On the Economics of Reference Service: Toward a Heuristic Model for an Uncertain World

JF - Reference Librarian

Y1 - 1995/ /

SP - 25

EP - 43

RP - Not in File

KW - Budgets

KW - Community Support

KW - Cost Effectiveness

KW - Library Development

KW - Library Expenditures

KW - Library Funding

KW - Library Planning

KW - Library Services

KW - Models

KW - User Needs Information

KW - Econometrics

KW - Heuristics

KW - Improvement

KW - Reference Services

N1 - An econometric model of library reference service is suggested for revision and improvement of current services. Discussion focuses on costs and budgets, expanding needs, and community support. (AEF)

ER -

TY - BOOK

ID - 37

A1 - Micco,M.

A1 - Popp,R.

T1 - Developing an Information Infrastructure To Support Information Retrieval: Towards a Theory of Clustering Based in Classification

Y1 - 1994/ /

RP - Not in File

KW - Automatic Indexing

KW - College Libraries

KW - Databases

KW - Expert systems

KW - Higher Education

KW - Hypermedia

KW - Users Information

KW - Classification

KW - Information Retrieval

KW - Online Catalogs

KW - Search Strategies

KW - Subject Index Terms

KW - Indiana University of Pennsylvania

KW - Information Infrastructure

KW - Library of Congress Subject Headings

KW - MARC

KW - Natural Language

KW - Prototypes

KW - Cluster Based Retrieval

KW - Dewey Decimal Classification

N1 - Techniques for building a world-wide information infrastructure by reverse engineering existing databases to link them in a hierarchical system of subject clusters to create an integrated database are explored. The controlled vocabulary of the Library of Congress Subject Headings is used to ensure consistency and group similar items. Each database becomes a system object, and each package within the database is assigned a subject cluster based on its content. An expert system matches the user profile to the information package best suited to need and locates the appropriate database. This is supplemented by a machine-generated natural language mapping scheme to lead the user into the clusters of interest. For the prototype, an object-oriented hypermedia user interface was developed, using MARC records. Packages are grouped into subject clusters consisting of the classification number and the first subject heading/keyword assigned. Use of a hierarchical classification number (Dewey number) makes it possible to broaden or narrow a search at will. It is anticipated that the system will be useful to searchers and will also provide a basis for automated indexing. Fifteen computer prototype screens are presented as illustrations. (SLD)

ER -

TY - JOUR

ID - 38

A1 - Richardson,J.V.,Jr

A1 - Reyes,R.B.

T1 - Government Information Expert Systems: A Quantitative Evaluation

JF - College & Research Libraries

Y1 - 1995/ /

VL - 56

SP - 235

EP - 247

RP - Not in File

KW - Expert systems

KW - Case Studies

KW - Comparative Analysis

KW - Information Sources

KW - Tests

KW - Government Publications

KW - Reference Materials

KW - Reference Services

KW - Question Answering

KW - Improvement

KW - Experts

KW - Evaluation

KW - United States

N1 - Two knowledge-based systems (KBS) are compared and contrasted; a test, based on 15 typical United States government document reference questions about the federal level of government, measured correct responses and keystroke efficiency. Concludes that there is a need for improvement of KBS in the government information field. (Author/AEF)

ER -

TY - JOUR

ID - 39

A1 - Du Plessis,J.P.

A1 - And Others

T1 - A Model for Intelligent Computer-Aided Education Systems

JF - Computers & Education

Y1 - 1995/ /

VL - 24

SP - 89

EP - 106

RP - Not in File

KW - Models

KW - Computer Assisted Instruction

KW - Computer Interfaces

KW - Constructivism Learning

KW - Cooperative Learning

KW - Expert systems

KW - Intermediate Grades

KW - Mathematics Instruction

KW - Online Systems

KW - Problem Solving

KW - Research Needs

KW - Intelligent Tutoring Systems

KW - Object Oriented Programming

KW - Prototypes

N1 - Proposes a model for intelligent computer-aided education systems that is based on cooperative learning, constructive problem-solving, object-oriented programming, interactive user interfaces, and expert system techniques. Future research is discussed, and a prototype for teaching mathematics to 10- to 12-year-old students is appended. (LRW)

ER -

TY - BOOK

ID - 40

A1 - Liebowitz,J.,Ed

A1 - Prerau,D.S.,Ed

T1 - Worldwide Intelligent Systems: Approaches to Telecommunications and Network Management.

Frontiers in Artificial Intelligence and Applications, Volume 24

Y1 - 1995/ /

RP - Not in File

KW - Artificial intelligence

KW - Computer Networks

KW - Foreign Countries

KW - Information Technology

KW - International Communication

KW - Knowledge Representation

KW - Online Systems

KW - Computer Mediated Communication

KW - Expert systems

KW - Information Management

KW - Information Networks

KW - Telecommunications

KW - Hybrid Technologies

KW - Speech Recognition

N1 - This is an international collection of 12 papers addressing artificial intelligence (AI) and knowledge technology applications in telecommunications and network management. It covers the latest and emerging AI technologies as applied to the telecommunications field. The papers are: "The Potential for Knowledge Technology in Telecommunications: A Quick Look" (J. Liebowitz); "Expert Systems for Telecommunications Dispatch Analysis and Remote Trouble Resolution" (D. S. Prerau); "Expert System for Service Order Information Entry" (S. Watanabe and F. Hattori); "Help Desk Applications at Telesoft" (F. Giovannini and V. Ripa di Meana); "Network Management Using Real-Time Expert Systems" (W. Fuller and S. Miksell); "AI for Managing Telecommunication Networks" (M. De Beler and others); "AI and Intelligent Networks in the 1990s and into the 21st Century" (L. Lewis); "Speech Recognition and Understanding" (R. De Mori and others); "Neural Networks in Telecommunications: Applying Adaptive AI"

(T. Loofbourrow); "The Use of Hybrid Intelligent Systems in Telecommunications" (R. Weihmayer and H. Velthuisen); and "Learning Agents for Telecommunication" (M. R. Adler and W. J. Frawley). An author index and an affiliation index are also provided. (AEF)

ER -

TY - JOUR

ID - 41

A1 - Fidel,R.

A1 - Efthimiadis,E.N.

T1 - Terminological Knowledge Structure for Intermediary Expert Systems

JF - Information Processing & Management

Y1 - 1995/ /

VL - 31

SP - 15

EP - 27

RP - Not in File

KW - Expert systems

KW - Automatic Indexing

KW - Classification

KW - Indexes

KW - Indexing

KW - Research Needs

KW - Thesauri

KW - Databases

KW - Information Retrieval

KW - Online Searching

KW - Experts

KW - Frequency Data

KW - Hedges Search Technique

KW - Knowledge Bases

KW - Knowledge Acquisition

KW - Search Keys

N1 - Examines the knowledge base of an intermediary expert system that provides advice about search term selection. Topics include a proposal for an integrated approach, including an option focusing on terminological attributes based on knowledge acquired from professional searchers; and the content of the knowledge base and the research needed to support its development. (53 references) (KRN)

ER -

TY - JOUR

ID - 42

A1 - Meghabghab,G.V.

A1 - Meghabghab,D.B.

T1 - INN: An Intelligent Negotiating Neural Network for Information Systems: A Design Model

JF - Information Processing and Management

Y1 - 1994/ /

VL - 30

SP - 663

EP - 685

RP - Not in File

KW - Information systems

KW - Models

KW - Illustrations

KW - Library Catalogs

KW - Online Catalogs

KW - Problems  
KW - Reference Services  
KW - Screen Design Computers  
KW - Users Information  
KW - Use Studies  
KW - Computer System Design  
KW - Expert systems  
KW - Information Retrieval  
KW - Man Machine Systems  
KW - Subject Index Terms  
KW - Examples  
KW - Neural Networks  
KW - Query Formulations  
KW - Query Negotiation Library Science  
N1 - Presents an Intelligent Negotiating Neural Network Design Model for solving the problem of poor information retrieval in subject searches of online catalogs. The purpose of the network, its architecture, and three different sessions of the user interface are described. Nineteen figures showing screens of the three sessions are appended. (Contains 42 references.) (KRN)  
ER -

TY - JOUR  
ID - 43  
A1 - Chen,H.  
A1 - And Others  
T1 - Explaining and Alleviating Information Management Indeterminism: A Knowledge-Based Framework  
JF - Information Processing and Management  
Y1 - 1994/ /  
VL - 30  
SP - 557  
EP - 577  
RP - Not in File  
KW - Classification  
KW - Database Management Systems  
KW - Information systems  
KW - Problems  
KW - Research and Development  
KW - Expert systems  
KW - Information Management  
KW - Online Systems  
KW - Computer Assisted Management  
N1 - Reports on two empirical studies that examined the nature and causes of information management indeterminism in an online research environment. A knowledge-based design for alleviating indeterminism which contains a system-generated thesaurus and an inferencing engine is proposed. (Contains 63 references.) (JLB)  
ER -

TY - JOUR  
ID - 44  
A1 - Khoo,C.S.G.  
A1 - Poo,D.C.C.  
T1 - An Expert System Approach to Online Catalog Subject Searching  
JF - Information Processing and Management  
Y1 - 1994/ /  
VL - 30

SP - 223  
EP - 238  
RP - Not in File  
KW - Experts  
KW - Expert systems  
KW - Higher Education  
KW - Literature Reviews  
KW - Library Catalogs  
KW - Online Catalogs  
KW - Search Strategies  
KW - Subject Index Terms  
KW - National University of Singapore  
KW - Natural Language  
KW - Prototypes  
N1 - Reviews methods to improve online catalogs for subject searching and describes the design of an expert system front-end to improve subject access in online public access catalogs that focuses on search strategies. Implementation of a prototype system at the National University of Singapore is described, and reformulation strategies are discussed. (Contains 25 references.) (LRW)  
ER -

TY - JOUR  
ID - 45  
A1 - Gunning,K.  
A1 - And Others  
T1 - Networked Electronic Information Systems at the University of Houston Libraries: The IRIS Project and Beyond  
JF - Library Hi Tech  
Y1 - 1993//  
VL - 11  
SP - 49  
EP - 55,83  
RP - Not in File  
KW - Information systems  
KW - Access to Information  
KW - College Libraries  
KW - Computer Networks  
KW - Computer System Design  
KW - Databases  
KW - Evaluation  
KW - Higher Education  
KW - Online Catalogs  
KW - Performance Factors  
KW - User Needs Information  
KW - User Satisfaction Information  
KW - Expert systems  
KW - Library Automation  
KW - Library Services  
KW - Online Searching  
KW - Optical Data Disks  
KW - Reference Services  
KW - Internet  
KW - University of Houston TX  
KW - CD ROM  
KW - Tests

KW - Experts

N1 - Provides an overview of the IRIS (Intelligent Reference Information System) project at the University of Houston (Texas) libraries; describes CD-ROM database performance tests, user reactions to the CD-ROM network, and a survey of users of an expert system to recommend reference sources; and reports on current activities and future plans. (Contains nine references.) (EAM)

ER -

TY - JOUR

ID - 46

A1 - Richardson,J.A.

A1 - And Others

T1 - MultiLIS: 21 Years in the Making

JF - Library Hi Tech

Y1 - 1993/ /

VL - 11

SP - 21

EP - 48

RP - Not in File

KW - Academic Libraries

KW - Decision Making

KW - Elementary Secondary Education

KW - Expert systems

KW - Foreign Countries

KW - Higher Education

KW - Library Networks

KW - Online Catalogs

KW - School Districts

KW - Technological Advancement

KW - Telecommunications

KW - Integrated Library Systems

KW - Library Automation

KW - Canada

KW - Decision Support Systems

KW - Historical Background

KW - State University of New York

KW - United States

KW - MultiLIS

KW - Experts

N1 - Describes MultiLIS, an integrated library system. Five sidebars discuss the State University of New York (SUNY) Library Automation Implementation Program, Frame Relay telecommunications technology, the Expert Choice Decision Support System, tools for enhancement of data quality in online catalogs, and library automation in the Saskatoon (Canada) school system. (EAM)

ER -

TY - JOUR

ID - 47

A1 - McCrank,L.J.

T1 - Reference Expertise: Paradigms, Strategies, and Systems

JF - Reference Librarian

Y1 - 1993/ /

SP - 11

EP - 42

RP - Not in File

KW - Academic Libraries



KW - Decision Making  
KW - Higher Education  
KW - Models  
KW - Search Strategies  
KW - Expert systems  
KW - Library Education  
KW - Library Services  
KW - Reference Services  
KW - Decision Support Systems  
KW - Query Analysis  
KW - Experts

N1 - Explores the significance of expert system design for library reference services and library education, focusing on model logic and modeling for query analysis. The approaches of some graduate library schools are reviewed. Appendices included a decision-support module, a reference module component, and a typology of queries and reference tools. (Contains 52 references.) (EAM)

ER -

TY - JOUR

ID - 48

A1 - Gauch,S.

A1 - Smith,J.B.

T1 - An Expert System for Automatic Query Reformation

JF - Journal of the American Society for Information Science

Y1 - 1993/ /

VL - 44

SP - 124

EP - 136

RP - Not in File

KW - Experts

KW - Expert systems

KW - Performance

KW - Research Needs

KW - Online Searching

KW - Relevance Information Retrieval

KW - Search Strategies

KW - Prototypes

KW - Ranking

KW - Improvement

N1 - Investigates performance of online searchers using a prototype expert system that automatically reformulates queries to improve results and ranks retrieved passages to speed identification of relevant information. Results indicated that the system significantly reduced the number of queries needed, produced marginally significant improvements in precision, and ranked relevant passages over irrelevant passages.

(36 references) (KRN)

ER -

TY - JOUR

ID - 49

A1 - Hawks,C.P.

T1 - In Support of Collection Assessment: The Role of Automation in the Acquisitions and Serials Departments

JF - Journal of Library Administration

Y1 - 1992/ /

VL - 17

SP - 13

EP - 30

RP - Not in File

KW - Cost Indexes

KW - Databases

KW - Expert systems

KW - Online Systems

KW - Optical Data Disks

KW - Library Acquisition

KW - Library Automation

KW - Library Collection Development

KW - Serials

KW - Approval Plans

KW - Library Policy

KW - Vendors

KW - Workstations

KW - Experts

N1 - Describes the role of automation in library acquisitions and serials departments in support of collection development. Highlights include workstations and expert systems; links to external databases; vendor services, including serials services and online review and selection of approval books; and automated access to collection development policies and price indices. (22 references) (LRW)

ER -

TY - JOUR

ID - 50

A1 - Borah,E.G.

T1 - Beyond Navigation: Librarians as Architects of Information Tools

JF - Research Strategies

Y1 - 1992/ /

VL - 10

SP - 138

EP - 142

RP - Not in File

KW - Academic Libraries

KW - Business

KW - Higher Education

KW - Indexes

KW - Information Retrieval

KW - Optical Data Disks

KW - Computer Software

KW - Databases

KW - Expert systems

KW - Librarians

KW - Reference Services

KW - Users Information

KW - University of California Los Angeles

KW - Experts

N1 - Argues that librarians should and can develop new electronic information products to meet their users' needs and describes the development of three such products at the Graduate School of Management Library at the University of California, Los Angeles (UCLA)--the RATIOS file, the REF-LITE Project, and the expert system Who?Biz. (EA)

ER -

TY - JOUR

ID - 52

A1 - Bailey,C.W.,Jr  
T1 - The Intelligent Reference Information System Project. A Merger of CD-ROM LAN and Expert System Technologies  
JF - Information Technology and Libraries  
Y1 - 1992/ /  
VL - 11  
SP - 237  
EP - 244  
RP - Not in File  
KW - Information systems  
KW - CD ROM  
KW - Experts  
KW - Expert systems  
KW - College Libraries  
KW - Databases  
KW - Futures of Society  
KW - Higher Education  
KW - Local Area Networks  
KW - Computer System Design  
KW - Library Services  
KW - Optical Data Disks  
KW - Reference Services  
KW - Prototypes  
KW - University of Houston TX  
KW - User Preferences  
KW - Workstations  
KW - Evaluation  
KW - Performance  
N1 - Describes the development of a prototype Intelligent Reference Information System (IRIS) at the University of Houston library which integrated a CD-ROM local area network (LAN) and expert system technologies. Evaluations of the CD-ROM LAN performance and user reactions are reported, and possible future developments are discussed. (13 references) (LRW)  
ER -

TY - JOUR  
ID - 53  
A1 - Gunning,K.  
T1 - The Intelligent Reference Information System: The Effect on Public Services of Implementing a CD-ROM LAN and Expert System  
JF - Library Administration & Management  
Y1 - 1992/ /  
VL - 6  
SP - 146  
EP - 153  
RP - Not in File  
KW - Information systems  
KW - CD ROM  
KW - Experts  
KW - Expert systems  
KW - College Libraries  
KW - Computer Software  
KW - Higher Education  
KW - Library Collection Development  
KW - Library Instruction

KW - Online Systems  
KW - Library Administration  
KW - Library Services  
KW - Local Area Networks  
KW - Optical Data Disks  
KW - Reference Services  
KW - University of Houston TX  
KW - Databases

N1 - Describes the Intelligent Reference Information System (IRIS) at the University of Houston libraries which includes a local area network of CD-ROM databases and an expert system to recommend reference sources. Effects of IRIS on public services management, bibliographic instruction, and collection development are discussed; and network licensing, software design, and access issues are considered. (three references) (MES)

ER -

TY - JOUR

ID - 54

A1 - Smeaton,A.F.

T1 - Prospects for Intelligent, Language-Based Information Retrieval

JF - Online Review

Y1 - 1991/ /

VL - 15

SP - 373

EP - 382

RP - Not in File

KW - Information Retrieval

KW - Expert systems

KW - Information Storage

KW - Online Systems

KW - Syntax

KW - Computational Linguistics

KW - Language Processing

KW - Man Machine Systems

KW - Semantics

KW - Natural Language Processing

KW - Natural Language

KW - Indexing

N1 - Unlike conventional information retrieval systems, natural language processing (NLP) systems translate queries automatically into the language of the system. This paper discusses the potential impact of NLP on both the indexing and retrieval of text and examines some current NLP projects and systems that have established knowledge bases in narrow domains. (18 references) (LAE)

ER -

TY - JOUR

ID - 55

A1 - Zahir,S.

A1 - Chang,C.L.

T1 - Online-Expert: An Expert System for Online Database Selection

JF - Journal of the American Society for Information Science

Y1 - 1992/ /

VL - 43

SP - 340

EP - 357

RP - Not in File

KW - Experts  
KW - Expert systems  
KW - Databases  
KW - Decision Making  
KW - Models  
KW - Online Vendors  
KW - Search Strategies  
KW - Selection  
KW - Tables Data  
KW - Users Information  
KW - Computer System Design  
KW - Online Searching  
KW - Online Systems  
KW - User Needs Information  
KW - Knowledge Acquisition  
KW - Knowledge Bases  
KW - Prototypes  
KW - Rank Order  
KW - Weighted Data  
KW - Decision Analysis Technique  
KW - Vendors

AV - ITESM-Centro de Información Biblioteca y Educational Resources Information Center de SilverPlatter

N1 - Describes the design and development of a prototype expert system called ONLINE-EXPERT that helps users select online databases and vendors that meet users' needs. Search strategies are discussed; knowledge acquisition and knowledge bases are described; and the Analytic Hierarchy Process (AHP), a decision analysis technique that ranks databases, is explained. (28 references) (LRW)

ER -

TY - JOUR

ID - 56

A1 - Buboltz,D.

A1 - And Others

T1 - Teaching Library Skills for the 1990s

JF - Book Report

Y1 - 1991/ /

VL - 10

SP - 13

EP - 15,17,19

RP - Not in File

KW - Computer Assisted Instruction

KW - Expert systems

KW - Junior High Schools

KW - Learning Activities

KW - Learning Resources Centers

KW - Library Automation

KW - Library Services

KW - Middle Schools

KW - Online Systems

KW - Reference Services

KW - Search Strategies

KW - Secondary Education

KW - Thinking Skills

KW - Library Instruction

KW - Library Skills  
KW - School Libraries  
KW - Information Skills  
KW - Librarian Teacher Cooperation  
KW - Printed Materials  
KW - Experts

N1 - Includes 10 articles that address issues involved in teaching library skills in middle schools and junior and senior high schools. Topics discussed include computer-based technology; blending print and electronic sources; search strategies for online systems; expert systems for reference questions; information skills and thinking skills; and teacher/librarian cooperation. (LRW)

ER -

TY - JOUR

ID - 57

A1 - Gauch,S.

T1 - Intelligent Information Retrieval: An Introduction

JF - Journal of the American Society for Information Science

Y1 - 1992/ /

VL - 43

SP - 175

EP - 182

RP - Not in File

KW - Information Retrieval

KW - Bibliographic Databases

KW - Cancer

KW - Computer Science

KW - Expert systems

KW - Full Text Databases

KW - Pollution

KW - Public Libraries

KW - Search Strategies

KW - Artificial intelligence

KW - Online Systems

KW - Users Information

KW - Corporations

KW - Gardening

KW - Knowledge Representation

KW - MEDLINE

KW - Natural Language Processing

KW - Experts

N1 - Discusses the application of artificial intelligence to online information retrieval systems and describes several systems: (1) CANSEARCH, from MEDLINE; (2) Intelligent Interface for Information Retrieval (IIR); (3) Gausch's Query Reformulation; (4) Environmental Pollution Expert (EP-X); (5) PLEXUS (gardening); and (6) SCISOR (corporate information). Knowledge representation and sample interactions are discussed for each system. (25 references) (LRW)

ER -

TY - JOUR

ID - 58

A1 - Drenth,H.

A1 - And Others

T1 - Expert Systems as Information Intermediaries

JF - Annual Review of Information Science and Technology

Y1 - 1991/ /

VL - 26  
SP - 113  
EP - 154  
RP - Not in File  
KW - Experts  
KW - Expert systems  
KW - Information Technology  
KW - Online Systems  
KW - Search Strategies  
KW - Literature Reviews  
KW - Online Searching  
KW - Knowledge Representation  
KW - Prototypes  
KW - Search Intermediaries  
KW - Models  
KW - Performance  
KW - Information Retrieval  
N1 - Examines how the use of expert systems has been applied to model the performance of an online search intermediary. Types of knowledge representation used in expert systems are reviewed, the role of the intermediary in online information retrieval is discussed, and both prototype and operational intermediary systems are described. (152 references) (LRW)  
ER -

TY - JOUR  
ID - 59  
A1 - Morris,A.  
T1 - Expert Systems for Library and Information Services--A Review  
JF - Information Processing and Management  
Y1 - 1991//  
VL - 27  
SP - 713  
EP - 724  
RP - Not in File  
KW - Experts  
KW - Expert systems  
KW - Abstracting  
KW - Bibliographic Utilities  
KW - Cataloging  
KW - Classification  
KW - Computer Software  
KW - Gateway Systems  
KW - Indexing  
KW - Library Services  
KW - Online Searching  
KW - Reference Services  
KW - Library Automation  
KW - Computer Assisted Cataloging  
KW - Information Retrieval  
N1 - This paper reviews the progress made so far in the development and use of expert systems for library and information services in the areas of online information retrieval, including gateway software and intelligent front-ends; cataloging, including bibliographic utilities and machine-aided cataloging; abstracting; reference work; and indexing and classification. (103 references) (LRW)  
ER -

TY - JOUR  
 ID - 60  
 A1 - Anvari,M.  
 T1 - A Database Model for Medical Consultation  
 JF - Journal of the American Society for Information Science  
 Y1 - 1991//  
 VL - 42  
 SP - 554  
 EP - 557  
 RP - Not in File  
 KW - Databases  
 KW - Models  
 KW - Clinical Diagnosis  
 KW - Expert systems  
 KW - Medical Evaluation  
 KW - Online Systems  
 KW - Examples  
 KW - Eye Infections  
 KW - Fuzzy Concepts  
 KW - Fuzzy Set Theory  
 KW - Knowledge Representation  
 KW - Relational Databases  
 KW - Relational Models  
 N1 - Describes a relational data model that can be used for knowledge representation and manipulation in rule-based medical consultation systems. Fuzzy queries or attribute values and fuzzy set theory are discussed, functional dependencies are described, and an example is presented of a system for diagnosing causes of eye inflammation. (15 references) (LRW)  
 ER -

TY - JOUR  
 ID - 61  
 A1 - Fidel,R.  
 T1 - Searchers' Selection of Search Keys. I. The Selection Routine; II. Controlled Vocabulary or Free-Text Searching; and III. Searching Styles  
 JF - Journal of the American Society for Information Science  
 Y1 - 1991//  
 VL - 42  
 SP - 490  
 EP - 527  
 RP - Not in File  
 KW - Selection  
 KW - Search Keys  
 KW - Case Studies  
 KW - Expert systems  
 KW - Full Text Databases  
 KW - Interviews  
 KW - Observation  
 KW - Relevance Information Retrieval  
 KW - Subject Index Terms  
 KW - Thesauri  
 KW - Online Searching  
 KW - Search Strategies  
 N1 - These three articles discuss online search key selection based on observations of professional online searchers, interviews, and analyses of the verbal and search protocols involved. The selection routine is



described, the use of controlled vocabulary versus free text searching is examined, and searching styles are discussed. (44 references) (LRW)

ER -

TY - BOOK

ID - 62

A1 - Spector,J.M.

A1 - And Others

T1 - An Automated Approach to Instructional Design Guidance

Y1 - 1993/ /

RP - Not in File

KW - Artificial intelligence

KW - Authoring Aids Programing

KW - Automation

KW - Online Systems

KW - Computer Assisted Instruction

KW - Computer Software Development

KW - Courseware

KW - Expert systems

KW - Instructional Design

KW - Military Training

KW - Air Force Human Resources Laboratory

KW - IDD Advisor

KW - Interactive Systems

KW - Instructional Systems Development

KW - Examples

KW - Classification

KW - Evaluation

N1 - This paper describes the Guided Approach to Instructional Design Advising (GAIDA), an automated instructional design tool that incorporates techniques of artificial intelligence. GAIDA was developed by the U.S. Air Force Armstrong Laboratory to facilitate the planning and production of interactive courseware and computer-based training materials. The tool is a case-based system that incorporates a short exposition of Gagne's nine events of instruction and four complete examples of applying the nine events to identification of naval insignia, classifications of electronic resistors, checklist procedure for the F-16 Gatling gun, and procedure for testing a patient's respiratory capacity using a spirometer. The paper covers (1) the issues involved in developing an automated instructional design advisor; (2) the results of Gagne's evaluation of the initial GAIDA case (the checklist for the F-16 gun); (3) a description of how GAIDA has been redesigned; and (4) how GAIDA will be used in future instructional design research and development projects. (Contains 18 references.) (KRN)

ER -

TY - BOOK

ID - 63

A1 - Lancaster,F.W.,Ed

A1 - Smith,L.C.,Ed

T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)

Y1 - 1992/ /

RP - Not in File

KW - Artificial intelligence

KW - Experts

KW - Expert systems

KW - Cataloging

KW - Futures of Society  
KW - Library Automation  
KW - Library Collection Development  
KW - Library Technical Processes  
KW - Online Searching  
KW - Reference Services  
KW - Users Information  
KW - Indexing  
KW - Information Management  
KW - Information Technology  
KW - Document Delivery  
KW - Knowledge Representation  
KW - Natural Language Processing  
KW - Databases  
KW - Natural Language  
KW - Language Processing  
KW - Models  
KW - Information systems  
KW - Problems  
KW - Indexes

N1 - Some of the 12 conference papers presented in this proceedings focus on the present and potential capabilities of artificial intelligence and expert systems as they relate to a wide range of library applications, including descriptive cataloging, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. The papers are; (1) "Artificial Intelligence: What Will They Think of Next?" (Douglas P. Metzler); (2) "Technical Services Processes as Models for Assessing Expert System Suitability and Benefits" (Charles Fenly); (3) "Automated Cataloging: Implications for Libraries and Patrons" (Stuart Weibel); (4) "Interactive Knowledge-Based Systems for Improved Subject Analysis and Retrieval" (Susanne M. Humphrey); (5) "Reference Expert Systems: Foundations in Reference Theory" (James R. Parrott); (6) "Expert Systems at the National Agricultural Library: Past, Present, and Future" (Samuel T. Waters); (7) "User Models for Information Systems: Prospects and Problems" (Christine L. Borgman and Yolanda I. Plute); (8) "Natural Language Processing: Current Status for Libraries" (Amy Warner); (9) "Knowledge Representation in Artificial Intelligence" (Irene L. Travis); (10) "Intelligent Interfaces to Online Databases" (Brian C. Vickery); (11) "Expert Systems in Document Delivery: The Feasibility of Learning Capabilities" (Jaime Pontigo, Ezequiel Tovar-Reyes, Guillermo Rodriguez, and Sergio Ortiz-Gama); and (12) "Walking Your Talk: Why Information Managers Are Not High Tech" (W. David Penniman). An index and brief author biographies conclude the volume; chapters include references. (KRN)

ER -

TY - JOUR

ID - 64

A1 - Richardson,J.V.,Jr

A1 - Reyes,R.B.

T1 - Government Information Expert Systems: A Quantitative Evaluation

JF - College & Research Libraries

Y1 - 1995//

VL - 56

SP - 235

EP - 247

RP - Not in File

KW - Experts

KW - Expert systems

KW - Evaluation

KW - Case Studies  
KW - Comparative Analysis  
KW - Information Sources  
KW - Tests  
KW - Government Publications  
KW - Reference Materials  
KW - Reference Services  
KW - Question Answering  
KW - United States  
KW - Improvement  
N1 - Two knowledge-based systems (KBS) are compared and contrasted; a test, based on 15 typical United States government document reference questions about the federal level of government, measured correct responses and keystroke efficiency. Concludes that there is a need for improvement of KBS in the government information field. (Author/AEF)  
ER -

TY - JOUR  
ID - 65  
A1 - Meghabghab,G.V.  
A1 - Meghabghab,D.B.  
T1 - INN: An Intelligent Negotiating Neural Network for Information Systems: A Design Model  
JF - Information Processing and Management  
Y1 - 1994/ /  
VL - 30  
SP - 663  
EP - 685  
RP - Not in File  
KW - Neural Networks  
KW - Information systems  
KW - Models  
KW - Illustrations  
KW - Library Catalogs  
KW - Online Catalogs  
KW - Problems  
KW - Reference Services  
KW - Screen Design Computers  
KW - Users Information  
KW - Use Studies  
KW - Computer System Design  
KW - Expert systems  
KW - Information Retrieval  
KW - Man Machine Systems  
KW - Subject Index Terms  
KW - Examples  
KW - Query Formulations  
KW - Query Negotiation Library Science  
N1 - Presents an Intelligent Negotiating Neural Network Design Model for solving the problem of poor information retrieval in subject searches of online catalogs. The purpose of the network, its architecture, and three different sessions of the user interface are described. Nineteen figures showing screens of the three sessions are appended. (Contains 42 references.) (KRN)  
ER -

TY - JOUR  
ID - 66

A1 - Gunning,K.  
 A1 - And Others  
 T1 - Networked Electronic Information Systems at the University of Houston Libraries: The IRIS Project and Beyond  
 JF - Library Hi Tech  
 Y1 - 1993/ /  
 VL - 11  
 SP - 49  
 EP - 55,83  
 RP - Not in File  
 KW - Information systems  
 KW - Access to Information  
 KW - College Libraries  
 KW - Computer Networks  
 KW - Computer System Design  
 KW - Databases  
 KW - Evaluation  
 KW - Higher Education  
 KW - Online Catalogs  
 KW - Performance Factors  
 KW - User Needs Information  
 KW - User Satisfaction Information  
 KW - Expert systems  
 KW - Library Automation  
 KW - Library Services  
 KW - Online Searching  
 KW - Optical Data Disks  
 KW - Reference Services  
 KW - Internet  
 KW - University of Houston TX  
 KW - CD ROM  
 KW - Performance  
 KW - Tests  
 KW - Experts  
 N1 - Provides an overview of the IRIS (Intelligent Reference Information System) project at the University of Houston (Texas) libraries; describes CD-ROM database performance tests, user reactions to the CD-ROM network, and a survey of users of an expert system to recommend reference sources; and reports on current activities and future plans. (Contains nine references.) (EAM)  
 ER -  
  
 TY - JOUR  
 ID - 67  
 A1 - McCrank,L.J.  
 T1 - Reference Expertise: Paradigms, Strategies, and Systems  
 JF - Reference Librarian  
 Y1 - 1993/ /  
 SP - 11  
 EP - 42  
 RP - Not in File  
 KW - Academic Libraries  
 KW - Decision Making  
 KW - Higher Education  
 KW - Models  
 KW - Search Strategies

KW - Expert systems  
KW - Library Education  
KW - Library Services  
KW - Reference Services  
KW - Decision Support Systems  
KW - Query Analysis  
KW - Experts  
N1 - Explores the significance of expert system design for library reference services and library education, focusing on model logic and modeling for query analysis. The approaches of some graduate library schools are reviewed. Appendices included a decision-support module, a reference module component, and a typology of queries and reference tools. (Contains 52 references.) (EAM)  
ER -

TY - JOUR  
ID - 68  
A1 - Borah,E.G.  
T1 - Beyond Navigation: Librarians as Architects of Information Tools  
JF - Research Strategies  
Y1 - 1992/ /  
VL - 10  
SP - 138  
EP - 142  
RP - Not in File  
KW - Librarians  
KW - Academic Libraries  
KW - Business  
KW - Higher Education  
KW - Indexes  
KW - Information Retrieval  
KW - Optical Data Disks  
KW - Computer Software  
KW - Databases  
KW - Expert systems  
KW - Reference Services  
KW - Users Information  
KW - University of California Los Angeles  
KW - Experts  
N1 - Argues that librarians should and can develop new electronic information products to meet their users' needs and describes the development of three such products at the Graduate School of Management Library at the University of California, Los Angeles (UCLA)--the RATIOS file, the REF-LITE Project, and the expert system Who?Biz. (EA)  
ER -

TY - JOUR  
ID - 70  
A1 - Gunning,K.  
T1 - The Intelligent Reference Information System: The Effect on Public Services of Implementing a CD-ROM LAN and Expert System  
JF - Library Administration & Management  
Y1 - 1992/ /  
VL - 6  
SP - 146  
EP - 153  
RP - Not in File

KW - Information systems  
KW - CD ROM  
KW - Experts  
KW - Expert systems  
KW - College Libraries  
KW - Computer Software  
KW - Higher Education  
KW - Library Collection Development  
KW - Library Instruction  
KW - Online Systems  
KW - Library Administration  
KW - Library Services  
KW - Local Area Networks  
KW - Optical Data Disks  
KW - Reference Services  
KW - University of Houston TX  
KW - Databases

N1 - Describes the Intelligent Reference Information System (IRIS) at the University of Houston libraries which includes a local area network of CD-ROM databases and an expert system to recommend reference sources. Effects of IRIS on public services management, bibliographic instruction, and collection development are discussed; and network licensing, software design, and access issues are considered. (three references) (MES)

ER -

TY - JOUR

ID - 71

A1 - Buboltz,D.

A1 - And Others

T1 - Teaching Library Skills for the 1990s

JF - Book Report

Y1 - 1991/ /

VL - 10

SP - 13

EP - 15,17,19

RP - Not in File

KW - Library Skills

KW - Computer Assisted Instruction

KW - Expert systems

KW - Junior High Schools

KW - Learning Activities

KW - Learning Resources Centers

KW - Library Automation

KW - Library Services

KW - Middle Schools

KW - Online Systems

KW - Reference Services

KW - Search Strategies

KW - Secondary Education

KW - Thinking Skills

KW - Library Instruction

KW - School Libraries

KW - Information Skills

KW - Librarian Teacher Cooperation

KW - Printed Materials

KW - Experts

N1 - Includes 10 articles that address issues involved in teaching library skills in middle schools and junior and senior high schools. Topics discussed include computer-based technology; blending print and electronic sources; search strategies for online systems; expert systems for reference questions; information skills and thinking skills; and teacher/librarian cooperation. (LRW)

ER -

TY - JOUR

ID - 72

A1 - Morris,A.

T1 - Expert Systems for Library and Information Services--A Review

JF - Information Processing and Management

Y1 - 1991//

VL - 27

SP - 713

EP - 724

RP - Not in File

KW - Experts

KW - Expert systems

KW - Abstracting

KW - Bibliographic Utilities

KW - Cataloging

KW - Classification

KW - Computer Software

KW - Gateway Systems

KW - Indexing

KW - Library Services

KW - Online Searching

KW - Reference Services

KW - Library Automation

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N1 - This paper reviews the progress made so far in the development and use of expert systems for library and information services in the areas of online information retrieval, including gateway software and intelligent front-ends; cataloging, including bibliographic utilities and machine-aided cataloging; abstracting; reference work; and indexing and classification. (103 references) (LRW)

ER -

TY - BOOK

ID - 73

A1 - Lancaster,F.W.,Ed

A1 - Smith,L.C.,Ed

T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)

Y1 - 1992//

RP - Not in File

KW - Artificial intelligence

KW - Experts

KW - Expert systems

KW - Cataloging

KW - Futures of Society

KW - Library Automation

KW - Library Collection Development

KW - Library Technical Processes  
KW - Online Searching  
KW - Reference Services  
KW - Users Information  
KW - Indexing  
KW - Information Management  
KW - Information Technology  
KW - Document Delivery  
KW - Knowledge Representation  
KW - Natural Language Processing  
KW - Databases  
KW - Natural Language  
KW - Language Processing  
KW - Models  
KW - Information systems  
KW - Problems  
KW - Indexes

N1 - Some of the 12 conference papers presented in this proceedings focus on the present and potential capabilities of artificial intelligence and expert systems as they relate to a wide range of library applications, including descriptive cataloging, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. The papers are; (1) "Artificial Intelligence: What Will They Think of Next?" (Douglas P. Metzler); (2) "Technical Services Processes as Models for Assessing Expert System Suitability and Benefits" (Charles Fenly); (3) "Automated Cataloging: Implications for Libraries and Patrons" (Stuart Weibel); (4) "Interactive Knowledge-Based Systems for Improved Subject Analysis and Retrieval" (Susanne M. Humphrey); (5) "Reference Expert Systems: Foundations in Reference Theory" (James R. Parrott); (6) "Expert Systems at the National Agricultural Library: Past, Present, and Future" (Samuel T. Waters); (7) "User Models for Information Systems: Prospects and Problems" (Christine L. Borgman and Yolanda I. Plute); (8) "Natural Language Processing: Current Status for Libraries" (Amy Warner); (9) "Knowledge Representation in Artificial Intelligence" (Irene L. Travis); (10) "Intelligent Interfaces to Online Databases" (Brian C. Vickery); (11) "Expert Systems in Document Delivery: The Feasibility of Learning Capabilities" (Jaime Pontigo, Ezequiel Tovar-Reyes, Guillermo Rodriguez, and Sergio Ortiz-Gama); and (12) "Walking Your Talk: Why Information Managers Are Not High Tech" (W. David Penniman). An index and brief author biographies conclude the volume; chapters include references. (KRN)

ER -

TY - JOUR

ID - 74

A1 - Meghabghab,G.V.

A1 - Meghabghab,D.B.

T1 - INN: An Intelligent Negotiating Neural Network for Information Systems: A Design Model

JF - Information Processing and Management

Y1 - 1994/ /

VL - 30

SP - 663

EP - 685

RP - Not in File

KW - Neural Networks

KW - Information systems

KW - Models

KW - Illustrations

KW - Library Catalogs

KW - Online Catalogs



KW - Problems  
KW - Reference Services  
KW - Screen Design Computers  
KW - Users Information  
KW - Use Studies  
KW - Computer System Design  
KW - Expert systems  
KW - Information Retrieval  
KW - Man Machine Systems  
KW - Subject Index Terms  
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KW - Query Formulations  
KW - Query Negotiation Library Science  
N1 - Presents an Intelligent Negotiating Neural Network Design Model for solving the problem of poor information retrieval in subject searches of online catalogs. The purpose of the network, its architecture, and three different sessions of the user interface are described. Nineteen figures showing screens of the three sessions are appended. (Contains 42 references.) (KRN)  
ER -

TY - JOUR  
ID - 75  
A1 - Gunning,K.  
A1 - And Others  
T1 - Networked Electronic Information Systems at the University of Houston Libraries: The IRIS Project and Beyond  
JF - Library Hi Tech  
Y1 - 1993//  
VL - 11  
SP - 49  
EP - 55,83  
RP - Not in File  
KW - Information systems  
KW - Access to Information  
KW - College Libraries  
KW - Computer Networks  
KW - Computer System Design  
KW - Databases  
KW - Evaluation  
KW - Higher Education  
KW - Online Catalogs  
KW - Performance Factors  
KW - User Needs Information  
KW - User Satisfaction Information  
KW - Expert systems  
KW - Library Automation  
KW - Library Services  
KW - Online Searching  
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ER -

TY - JOUR

ID - 76

A1 - McCrank,L.J.

T1 - Reference Expertise: Paradigms, Strategies, and Systems

JF - Reference Librarian

Y1 - 1993/ /

SP - 11

EP - 42

RP - Not in File

KW - Academic Libraries

KW - Decision Making

KW - Higher Education

KW - Models

KW - Search Strategies

KW - Expert systems

KW - Library Education

KW - Library Services

KW - Reference Services

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ER -

TY - JOUR

ID - 77

A1 - Borah,E.G.

T1 - Beyond Navigation: Librarians as Architects of Information Tools

JF - Research Strategies

Y1 - 1992/ /

VL - 10

SP - 138

EP - 142

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KW - Higher Education

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KW - Reference Services  
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KW - Experts  
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ER -

TY - JOUR  
ID - 79  
A1 - Gunning,K.  
T1 - The Intelligent Reference Information System: The Effect on Public Services of Implementing a CD-ROM LAN and Expert System  
JF - Library Administration & Management  
Y1 - 1992/ /  
VL - 6  
SP - 146  
EP - 153  
RP - Not in File  
KW - Information systems  
KW - CD ROM  
KW - Experts  
KW - Expert systems  
KW - College Libraries  
KW - Computer Software  
KW - Higher Education  
KW - Library Collection Development  
KW - Library Instruction  
KW - Online Systems  
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KW - Optical Data Disks  
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ER -

TY - JOUR  
ID - 80  
A1 - Buboltz,D.  
A1 - And Others  
T1 - Teaching Library Skills for the 1990s  
JF - Book Report  
Y1 - 1991/ /  
VL - 10  
SP - 13

EP - 15,17,19

RP - Not in File

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KW - Computer Assisted Instruction

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KW - Information Skills

KW - Librarian Teacher Cooperation

KW - Printed Materials

KW - Experts

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ER -

TY - JOUR

ID - 81

A1 - Morris,A.

T1 - Expert Systems for Library and Information Services--A Review

JF - Information Processing and Management

Y1 - 1991//

VL - 27

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EP - 724

RP - Not in File

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KW - Reference Services

KW - Library Automation

KW - Computer Assisted Cataloging

KW - Information Retrieval

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ER -

TY - BOOK

ID - 82

A1 - Lancaster,F.W.,Ed

A1 - Smith,L.C.,Ed

T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)

Y1 - 1992/ /

RP - Not in File

KW - Artificial intelligence

KW - Experts

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KW - Library Collection Development

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KW - Language Processing

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KW - Indexes

N1 - Some of the 12 conference papers presented in this proceedings focus on the present and potential capabilities of artificial intelligence and expert systems as they relate to a wide range of library applications, including descriptive cataloging, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. The papers are; (1) "Artificial Intelligence: What Will They Think of Next?" (Douglas P. Metzler); (2) "Technical Services Processes as Models for Assessing Expert System Suitability and Benefits" (Charles Fenly); (3) "Automated Cataloging: Implications for Libraries and Patrons" (Stuart Weibel); (4) "Interactive Knowledge-Based Systems for Improved Subject Analysis and Retrieval" (Susanne M. Humphrey); (5) "Reference Expert Systems: Foundations in Reference Theory" (James R. Parrott); (6) "Expert Systems at the National Agricultural Library: Past, Present, and Future" (Samuel T. Waters); (7) "User Models for Information Systems: Prospects and Problems" (Christine L. Borgman and Yolanda I. Plute); (8) "Natural Language Processing: Current Status for Libraries" (Amy Warner); (9) "Knowledge Representation in Artificial Intelligence" (Irene L. Travis); (10) "Intelligent Interfaces to Online Databases" (Brian C. Vickery); (11) "Expert Systems in Document Delivery: The Feasibility of Learning Capabilities" (Jaime Pontigo, Ezequiel Tovar-

Reyes, Guillermo Rodriquez, and Sergio Ortiz-Gama); and (12) "Walking Your Talk: Why Information Managers Are Not High Tech" (W. David Penniman). An index and brief author biographies conclude the volume; chapters include references. (KRN)

ER -

TY - JOUR

ID - 86

A1 - Duval,B.K.

A1 - Main,L.

T1 - Expert Systems: What Is an Expert System?

JF - Library Software Review

Y1 - 1994/ /

VL - 13

SP - 44

EP - 53

RP - Not in File

KW - Experts

KW - Expert systems

KW - Information Sources

KW - Man Machine Systems

KW - Microcomputers

KW - Programming Languages

KW - Library Automation

KW - Examples

KW - Vendors

KW - Expert System Shells

N1 - Describes expert systems and discusses their use in libraries. Highlights include parts of an expert system; expert system shells; an example of how to build an expert system; a bibliography of 34 sources of information on expert systems in libraries; and a list of 10 expert system shells used in libraries. (Contains five references.) (LRW)

ER -

TY - JOUR

ID - 87

A1 - Gunning,K.

A1 - And Others

T1 - Networked Electronic Information Systems at the University of Houston Libraries: The IRIS Project and Beyond

JF - Library Hi Tech

Y1 - 1993/ /

VL - 11

SP - 49

EP - 55,83

RP - Not in File

KW - Information systems

KW - Access to Information

KW - College Libraries

KW - Computer Networks

KW - Computer System Design

KW - Databases

KW - Evaluation

KW - Higher Education

KW - Online Catalogs

KW - Performance Factors

KW - User Needs Information  
 KW - User Satisfaction Information  
 KW - Expert systems  
 KW - Library Automation  
 KW - Library Services  
 KW - Online Searching  
 KW - Optical Data Disks  
 KW - Reference Services  
 KW - Internet  
 KW - University of Houston TX  
 KW - CD ROM  
 KW - Performance  
 KW - Tests  
 KW - Experts  
 N1 - Provides an overview of the IRIS (Intelligent Reference Information System) project at the University of Houston (Texas) libraries; describes CD-ROM database performance tests, user reactions to the CD-ROM network, and a survey of users of an expert system to recommend reference sources; and reports on current activities and future plans. (Contains nine references.) (EAM)  
 ER -

TY - JOUR  
 ID - 88  
 A1 - Richardson,J.A.  
 A1 - And Others  
 T1 - MultiLIS: 21 Years in the Making  
 JF - Library Hi Tech  
 Y1 - 1993//  
 VL - 11  
 SP - 21  
 EP - 48  
 RP - Not in File  
 KW - MultiLIS  
 KW - Academic Libraries  
 KW - Decision Making  
 KW - Elementary Secondary Education  
 KW - Expert systems  
 KW - Foreign Countries  
 KW - Higher Education  
 KW - Library Networks  
 KW - Online Catalogs  
 KW - School Districts  
 KW - Technological Advancement  
 KW - Telecommunications  
 KW - Integrated Library Systems  
 KW - Library Automation  
 KW - Canada  
 KW - Decision Support Systems  
 KW - Historical Background  
 KW - State University of New York  
 KW - United States  
 KW - Automation  
 KW - Experts  
 N1 - Describes MultiLIS, an integrated library system. Five sidebars discuss the State University of New York (SUNY) Library Automation Implementation Program, Frame Relay telecommunications technology,

the Expert Choice Decision Support System, tools for enhancement of data quality in online catalogs, and library automation in the Saskatoon (Canada) school system. (EAM)

ER -

TY - JOUR

ID - 89

A1 - Hawks,C.P.

T1 - In Support of Collection Assessment: The Role of Automation in the Acquisitions and Serials Departments

JF - Journal of Library Administration

Y1 - 1992/ /

VL - 17

SP - 13

EP - 30

RP - Not in File

KW - Automation

KW - Serials

KW - Cost Indexes

KW - Databases

KW - Expert systems

KW - Online Systems

KW - Optical Data Disks

KW - Library Acquisition

KW - Library Automation

KW - Library Collection Development

KW - Approval Plans

KW - Library Policy

KW - Vendors

KW - Workstations

KW - Experts

KW - Selection

N1 - Describes the role of automation in library acquisitions and serials departments in support of collection development. Highlights include workstations and expert systems; links to external databases; vendor services, including serials services and online review and selection of approval books; and automated access to collection development policies and price indices. (22 references) (LRW)

ER -

TY - JOUR

ID - 91

A1 - Simpson,C.W.

T1 - Technical Services Research, 1988-1991

JF - Library Resources and Technical Services

Y1 - 1992/ /

VL - 36

SP - 383

EP - 408

RP - Not in File

KW - Cataloging

KW - Classification

KW - Costs

KW - Expert systems

KW - Library Automation

KW - Library Catalogs

KW - Literature Reviews



KW - Online Catalogs  
KW - Preservation  
KW - Serials  
KW - Shared Library Resources  
KW - Subject Index Terms  
KW - Library Research  
KW - Library Technical Processes  
KW - Approval Plans  
KW - Authority Control Information  
KW - Library Materials Conservation  
KW - Library Organization  
KW - Vendors  
KW - Automation  
KW - Experts  
AV - ITESM-Centro de Información Biblioteca; UDEM-Biblioteca Central y Educational Resources  
Information Center de SilverPlatter  
N1 - Reviews research published between 1988 and 1991 in technical services in the areas of acquisitions, including automation, costs, and vendor analysis; authority control; automation; cataloging, including costs and time analysis, rules and theory, expert systems, online catalogs, and shared cataloging; classification; preservation; serials; subject access; and technical services costs and organization. (106 references) (LRW)  
ER -

TY - JOUR  
ID - 92  
A1 - Buboltz,D.  
A1 - And Others  
T1 - Teaching Library Skills for the 1990s  
JF - Book Report  
Y1 - 1991//  
VL - 10  
SP - 13  
EP - 15,17,19  
RP - Not in File  
KW - Library Skills  
KW - Computer Assisted Instruction  
KW - Expert systems  
KW - Junior High Schools  
KW - Learning Activities  
KW - Learning Resources Centers  
KW - Library Automation  
KW - Library Services  
KW - Middle Schools  
KW - Online Systems  
KW - Reference Services  
KW - Search Strategies  
KW - Secondary Education  
KW - Thinking Skills  
KW - Library Instruction  
KW - School Libraries  
KW - Information Skills  
KW - Librarian Teacher Cooperation  
KW - Printed Materials  
KW - Experts

N1 - Includes 10 articles that address issues involved in teaching library skills in middle schools and junior and senior high schools. Topics discussed include computer-based technology; blending print and electronic sources; search strategies for online systems; expert systems for reference questions; information skills and thinking skills; and teacher/librarian cooperation. (LRW)

ER -

TY - JOUR

ID - 93

A1 - DeBrower,A.M.

A1 - Jones,D.T.

T1 - Application of an Expert System to Collection Development: Donation Processing in a Special Library

JF - Library Software Review

Y1 - 1991//

VL - 10

SP - 384,386

EP - 89

RP - Not in File

KW - Experts

KW - College Libraries

KW - Computer System Design

KW - Cost Effectiveness

KW - Decision Making

KW - Higher Education

KW - Library Collection Development

KW - Library Expenditures

KW - Library Technical Processes

KW - Nonprofessional Personnel

KW - Scientific and Technical Information

KW - Expert systems

KW - Library Acquisition

KW - Library Automation

KW - Physics

KW - Special Libraries

KW - Johns Hopkins University MD

KW - Costs

KW - Performance

N1 - Describes a project at the library of the Applied Physics Laboratory (APL) at Johns Hopkins University that developed an expert system to conserve professional staff time and reduce processing costs by allowing gifts, or donations, to be processed by support staff. Decision-making factors are explained, and performance statistics are discussed. (four references) (LRW)

ER -

TY - JOUR

ID - 94

A1 - Morris,A.

T1 - Expert Systems for Library and Information Services--A Review

JF - Information Processing and Management

Y1 - 1991//

VL - 27

SP - 713

EP - 724

RP - Not in File

KW - Experts

KW - Expert systems  
KW - Abstracting  
KW - Bibliographic Utilities  
KW - Cataloging  
KW - Classification  
KW - Computer Software  
KW - Gateway Systems  
KW - Indexing  
KW - Library Services  
KW - Online Searching  
KW - Reference Services  
KW - Library Automation  
KW - Computer Assisted Cataloging  
KW - Information Retrieval

N1 - This paper reviews the progress made so far in the development and use of expert systems for library and information services in the areas of online information retrieval, including gateway software and intelligent front-ends; cataloging, including bibliographic utilities and machine-aided cataloging; abstracting; reference work; and indexing and classification. (103 references) (LRW)

ER -

TY - BOOK

ID - 95

A1 - Lancaster,F.W.,Ed

A1 - Smith,L.C.,Ed

T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)

Y1 - 1992/ /

RP - Not in File

KW - Artificial intelligence

KW - Experts

KW - Expert systems

KW - Cataloging

KW - Futures of Society

KW - Library Automation

KW - Library Collection Development

KW - Library Technical Processes

KW - Online Searching

KW - Reference Services

KW - Users Information

KW - Indexing

KW - Information Management

KW - Information Technology

KW - Document Delivery

KW - Knowledge Representation

KW - Natural Language Processing

KW - Databases

KW - Natural Language

KW - Language Processing

KW - Models

KW - Information systems

KW - Problems

KW - Indexes

N1 - Some of the 12 conference papers presented in this proceedings focus on the present and potential capabilities of artificial intelligence and expert systems as they relate to a wide range of library applications, including descriptive cataloging, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. The papers are; (1) "Artificial Intelligence: What Will They Think of Next?" (Douglas P. Metzler); (2) "Technical Services Processes as Models for Assessing Expert System Suitability and Benefits" (Charles Fenly); (3) "Automated Cataloging: Implications for Libraries and Patrons" (Stuart Weibel); (4) "Interactive Knowledge-Based Systems for Improved Subject Analysis and Retrieval" (Susanne M. Humphrey); (5) "Reference Expert Systems: Foundations in Reference Theory" (James R. Parrott); (6) "Expert Systems at the National Agricultural Library: Past, Present, and Future" (Samuel T. Waters); (7) "User Models for Information Systems: Prospects and Problems" (Christine L. Borgman and Yolanda I. Plute); (8) "Natural Language Processing: Current Status for Libraries" (Amy Warner); (9) "Knowledge Representation in Artificial Intelligence" (Irene L. Travis); (10) "Intelligent Interfaces to Online Databases" (Brian C. Vickery); (11) "Expert Systems in Document Delivery: The Feasibility of Learning Capabilities" (Jaime Pontigo, Ezequiel Tovar-Reyes, Guillermo Rodriguez, and Sergio Ortiz-Gama); and (12) "Walking Your Talk: Why Information Managers Are Not High Tech" (W. David Penniman). An index and brief author biographies conclude the volume; chapters include references. (KRN)

ER -

TY - JOUR

ID - 96

A1 - Adams,R.

T1 - Issues in Decision Support in Libraries

JF - Information Services and Use

Y1 - 1991/ /

VL - 11

SP - 43

EP - 49

RP - Not in File

KW - Academic Libraries

KW - Higher Education

KW - Man Machine Systems

KW - Models

KW - Resource Allocation

KW - User Needs Information

KW - Artificial intelligence

KW - Decision Making

KW - Library Administration

KW - Management Information Systems

KW - Problem Solving

KW - Decision Support Systems

N1 - Describes research at Leicester Polytechnic Institute (UK) which examined possible applications of decision support system tools in libraries; in particular, this research explored the role of decision support systems in relation to the development of resources allocation modelling. (five references) (MAB)

ER -

TY - BOOK

ID - 97

A1 - Lancaster,F.W.,Ed

A1 - Smith,L.C.,Ed

T1 - Artificial Intelligence and Expert Systems: Will They Change the Library? Papers Presented at the Annual Clinic on Library Applications of Data Processing (27th, Urbana, Illinois, March 25-27, 1990). Illinois, March 25-27, 1990)

Y1 - 1992/ /

RP - Not in File

KW - Artificial intelligence

KW - Experts

KW - Expert systems

KW - Cataloging

KW - Futures of Society

KW - Library Automation

KW - Library Collection Development

KW - Library Technical Processes

KW - Online Searching

KW - Reference Services

KW - Users Information

KW - Indexing

KW - Information Management

KW - Information Technology

KW - Document Delivery

KW - Knowledge Representation

KW - Natural Language Processing

KW - Databases

KW - Natural Language

KW - Language Processing

KW - Models

KW - Information systems

KW - Problems

KW - Indexes

N1 - Some of the 12 conference papers presented in this proceedings focus on the present and potential capabilities of artificial intelligence and expert systems as they relate to a wide range of library applications, including descriptive cataloging, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. The papers are; (1) "Artificial Intelligence: What Will They Think of Next?" (Douglas P. Metzler); (2) "Technical Services Processes as Models for Assessing Expert System Suitability and Benefits" (Charles Fenly); (3) "Automated Cataloging: Implications for Libraries and Patrons" (Stuart Weibel); (4) "Interactive Knowledge-Based Systems for Improved Subject Analysis and Retrieval" (Susanne M. Humphrey); (5) "Reference Expert Systems: Foundations in Reference Theory" (James R. Parrott); (6) "Expert Systems at the National Agricultural Library: Past, Present, and Future" (Samuel T. Waters); (7) "User Models for Information Systems: Prospects and Problems" (Christine L. Borgman and Yolanda I. Plute); (8) "Natural Language Processing: Current Status for Libraries" (Amy Warner); (9) "Knowledge Representation in Artificial Intelligence" (Irene L. Travis); (10) "Intelligent Interfaces to Online Databases" (Brian C. Vickery); (11) "Expert Systems in Document Delivery: The Feasibility of Learning Capabilities" (Jaime Pontigo, Ezequiel Tovar-Reyes, Guillermo Rodriguez, and Sergio Ortiz-Gama); and (12) "Walking Your Talk: Why Information Managers Are Not High Tech" (W. David Penniman). An index and brief author biographies conclude the volume; chapters include references. (KRN)

ER -

TY - BOOK

ID - 98

A1 - Vanasco,L.C.

T1 - Utilizing Technology: A Decision To Enhance Instruction

Y1 - 1990/ /

RP - Not in File

KW - Academic Libraries

KW - Artificial intelligence

KW - Computer Simulation  
KW - Course Evaluation  
KW - Decision Making  
KW - Educational Research  
KW - Higher Education  
KW - Literature Reviews  
KW - Computer Assisted Instruction  
KW - Computer Literacy  
KW - Computer Software  
KW - Courseware  
KW - Instructional Improvement  
KW - Microcomputers  
KW - Decision Support Systems  
KW - Experts  
KW - Business  
KW - Databases

N1 - This review of the literature describes a number of ways in which microcomputers are being used to improve instruction. A discussion of types of software being used in instructional settings focuses primarily on the use of word processing programs by both instructors and students in writing. Descriptions of types of computer software that may be used in language learning include computer-assisted language learning (CALL) software; word processing for improving writing skills; software packages designed to improve grammar; and spreadsheets and other software that can be used to create graphs, charts, and slides to enhance oral presentations. The use of spreadsheets in financial and managerial analyses is also described, as well as the attributes and capabilities that make the computer an effective tool in teaching foreign languages. Several computer simulation games that are being used in management courses to facilitate decision making and a decision support system software package are then reviewed. A discussion of artificial intelligence highlights the development of the Expert Knowledge-Based System to help students learn management decision making skills for strategic planning in business. Advantages of online database systems and compact disks for instructors and researchers are briefly described, and a potential role for videodisks in libraries is indicated. Several ways in which schoolwork experiences with computers can be improved are suggested, and software packages that can be used in evaluating courses are briefly described. In conclusion, instructors are urged to encourage their students to exploit the tools that will increase their intellectual capabilities. Contains 26 endnotes. (ALF)

ER -

TY - JOUR

ID - 99

A1 - Wang,P.

A1 - Soergel,D.

T1 - Beyond Topical Relevance: Document Selection Behavior of Real Users of IR Systems

JF - Proceedings of the Asis Annual Meeting

Y1 - 1993/ /

VL - 30

SP - 87

EP - 92

RP - Not in File

KW - Selection

KW - Artificial intelligence

KW - Citations References

KW - Computer System Design

KW - Decision Making

KW - Evaluation Criteria

KW - Models

KW - Online Searching

KW - User Satisfaction Information  
KW - Value Judgment  
KW - Documentation  
KW - Information Retrieval  
KW - Relevance Information Retrieval  
KW - Cognitive Models  
KW - Document Handling  
N1 - Describes a study of users' document selection behavior that was conducted to build a tentative cognitive model of document selection behavior to be used in designing intelligent information retrieval systems. Topics addressed include studies of relevance and of decision making; value judgments; and document information elements considered during utility judging. (Contains 24 references.) (LRW)  
ER -

TY - JOUR  
ID - 100  
A1 - Chen,Z.  
T1 - Let Documents Talk to Each Other: A Computer Model for Connection of Short Documents  
JF - Journal of Documentation  
Y1 - 1993/ /  
VL - 49  
SP - 44  
EP - 54  
RP - Not in File  
KW - Models  
KW - Artificial intelligence  
KW - Comparative Analysis  
KW - Information Retrieval  
KW - Documentation  
KW - Scientific and Technical Information  
KW - Document Analysis  
KW - Examples  
KW - Prototypes  
KW - Computer Models  
KW - Connectivity  
N1 - Discusses the integration of scientific texts through the connection of documents and describes a computer model that can connect short documents. Information retrieval and artificial intelligence are discussed; a prototype system of the model is explained; and the model is compared to other computer models. (17 references) (LRW)  
ER -

TY - JOUR  
ID - 101  
A1 - Huston,M.M.  
T1 - Windows into the Search Process: An Inquiry into Dimensions of Online Information Retrieval  
JF - Online Review  
Y1 - 1991/ /  
VL - 15  
SP - 227  
EP - 243  
RP - Not in File  
KW - Information Retrieval  
KW - Futures of Society  
KW - Information Technology  
KW - Models

KW - Research Needs  
KW - Users Information  
KW - Online Systems  
KW - Search Strategies  
KW - Cognitive Models  
KW - Contextual Analysis  
KW - Theoretical Analysis  
N1 - Provides contextual frameworks for the nature of information technology, the information universe, and the information search as they relate to online information retrieval. Theories on search strategy are reviewed, cognitive models of information seeking are highlighted, and future directions for research on users' search processes are discussed. (61 references) (LRW)  
ER -

TY - JOUR  
ID - 102  
A1 - Zabezhalo,M.I.  
A1 - Finn,V.K.  
T1 - Intelligent Information Systems  
JF - International Forum on Information and Documentation  
Y1 - 1996/ /  
VL - 21  
SP - 21  
EP - 31  
RP - Not in File  
KW - Information systems  
KW - Computation  
KW - Computer Oriented Programs  
KW - Ecology  
KW - Futures of Society  
KW - Information Technology  
KW - Information Transfer  
KW - Knowledge Representation  
KW - Problem Solving  
KW - Artificial intelligence  
KW - Data Processing  
KW - Expert systems  
KW - Information Retrieval  
KW - Information Storage  
KW - Data Flow  
KW - Data Warehousing  
KW - Examples  
KW - Standardization  
KW - Research and Development  
N1 - An Intelligent Information System (IIS) uses data warehouse technology to facilitate the cycle of data and knowledge processing, including input, standardization, storage, representation, retrieval, calculation, and delivery. This article provides an overview of IIS products and artificial intelligence systems, illustrates examples of IIS applications in ecology, and identifies paths of research and development. (LAM)  
ER -

TY - JOUR  
ID - 103  
A1 - Meek,J.  
T1 - Intelligent Agents, Internet Information and Interface  
JF - Australian Journal of Educational Technology



Y1 - 1995/ /

VL - 11

SP - 75

EP - 90

RP - Not in File

KW - Internet

KW - Classification

KW - Computer Interfaces

KW - Creativity

KW - Futures of Society

KW - Indexing

KW - Information Retrieval

KW - Metaphors

KW - Artificial intelligence

KW - Computer Software

KW - Anthropomorphism

KW - Computer Mapping

KW - Information Overload

N1 - Reviews intelligent software agents and their relevance to networked information, particularly concerning future patterns of information gathering in research and education. Discussion of Internet information includes differing interfaces, the need for indexing, and map-making and information overload. Additional highlights include characteristics of intelligent agents; agent classification schemes; creativity; metaphors; and anthropomorphism. (Author/LRW)

ER -

TY - JOUR

ID - 104

A1 - Losee,R.M.

T1 - Learning Syntactic Rules and Tags with Genetic Algorithms for Information Retrieval and Filtering:  
An Empirical Basis for Grammatical Rules

JF - Information Processing & Management

Y1 - 1996/ /

VL - 32

SP - 185

EP - 197

RP - Not in File

KW - Information Retrieval

KW - Algorithms

KW - Artificial intelligence

KW - Expert systems

KW - Information systems

KW - Semantics

KW - Language Processing

KW - Structural Grammar

KW - Tagmemic Analysis

KW - Natural Languages

KW - Natural Language

N1 - The grammars of natural languages may be learned by using genetic algorithm systems such as LUST (Linguistics Using Sexual Techniques) that reproduce and mutate grammatical rules and parts-of-speech tags. In document retrieval or filtering systems, applying tags to the list of terms representing a document provides additional information about semantics and structure. (Author/AEF)

ER -

TY - JOUR

ID - 105

T1 - Abstracts of SIG Sessions

JF - Proceedings of the Asis Annual Meeting

Y1 - 1994/ /

VL - 31

SP - 79

EP - 101

RP - Not in File

KW - Abstracts

KW - Artificial intelligence

KW - Classification

KW - Computer Interfaces

KW - Information Retrieval

KW - Information Scientists

KW - Information systems

KW - Ownership

KW - Vocabulary

KW - Conferences

KW - Information Science

KW - Professional Associations

KW - Economics of Information

KW - Fuzzy Concepts

KW - Information Value

KW - Natural Language

KW - Telecommuting

KW - American Society for Information Science

KW - Special Interest Groups

KW - Language Processing

KW - Business

N1 - Includes abstracts of 18 special interest group (SIG) sessions. Highlights include natural language processing, information science and terminology science, classification, knowledge-intensive information systems, information value and ownership issues, economics and theories of information science, information retrieval interfaces, fuzzy thinking machines, telecommuting, information businesses, document fusion, and artificial intelligence. (LRW)

ER -

TY - JOUR

ID - 106

A1 - Chen,H.

T1 - Machine Learning for Information Retrieval: Neural Networks, Symbolic Learning, and Genetic Algorithms

JF - Journal of the American Society for Information Science

Y1 - 1995/ /

VL - 46

SP - 194

EP - 216

RP - Not in File

KW - Information Retrieval

KW - Neural Networks

KW - Algorithms

KW - Indexing

KW - Induction

KW - Information Processing

KW - Information Science

KW - Knowledge Representation

KW - Logical Thinking

KW - Artificial intelligence

N1 - Presents an overview of artificial-intelligence-based inductive learning techniques and their use in information science research. Three methods are discussed: the connectionist Hopfield network; the symbolic ID3/ID5R; evolution-based genetic algorithms. The knowledge representations and algorithms of these methods are examined in the context of information retrieval. (131 references) (Author/JKP)

ER -

TY - JOUR

ID - 107

A1 - Chandler,T.N.

T1 - The Science Education Advisor: Applying a User Centered Design Approach to the Development of an Interactive Case-Based Advising System

JF - Journal of Artificial Intelligence in Education

Y1 - 1994/ /

VL - 5

SP - 283

EP - 318

RP - Not in File

KW - Case Studies

KW - Computer Software

KW - Elementary Education

KW - Hypermedia

KW - Information Retrieval

KW - Science Activities

KW - Artificial intelligence

KW - Computer System Design

KW - Elementary School Science

KW - User Needs Information

KW - Conceptual Models

KW - Interactive Systems

KW - Hypertext

N1 - Explains how a user-centered approach to system design addressed the representational and strategic issues that arose when developing an artificial intelligence-based system, the Science Education Advisor, a case-based hypertext browsing system designed to collect and dispense ideas and advice for teaching elementary school science. (39 references) (LRW)

ER -

TY - JOUR

ID - 108

A1 - Roesler,M.

A1 - Hawkins,D.T.

T1 - Intelligent Agents: Software Servants for an Electronic Information World (And More!)

JF - Online

Y1 - 1994/ /

VL - 18

SP - 18

EP - 20,22,24

RP - Not in File

KW - Electronic Mail

KW - Higher Education

KW - Information Services

KW - Investment

KW - News Media  
KW - Research and Development  
KW - Scheduling  
KW - Artificial intelligence  
KW - Computer Software  
KW - Information Retrieval  
KW - American Telephone and Telegraph Company  
KW - Apple Computer Inc  
KW - Shopping  
KW - Examples

N1 - Discusses the concept and characteristics of artificial intelligence software for information retrieval, news filtering, clerical support, personal shopping, and investment counseling. Research projects on artificial intelligence at six academic institutions and examples of nine retrieval agent software packages are highlighted. Sidebars discuss Apple Computer's "Knowledge Navigator" and AT&T's "PersonaLinks."  
(Contains 17 references.) (SLW)

ER -

TY - JOUR

ID - 109

A1 - Chen,Z.

T1 - Enhancing Database Management to Knowledge Base Management: The Role of Information Retrieval Technology

JF - Information Processing and Management

Y1 - 1994/ /

VL - 30

SP - 419

EP - 435

RP - Not in File

KW - Databases

KW - Database management

KW - Knowledge Bases

KW - Information Retrieval

KW - Research Needs

KW - Artificial intelligence

KW - Database Management Systems

KW - Information systems

KW - Conceptual Models

KW - Examples

KW - Knowledge Acquisition

KW - Relational Approach Information Retrieval

KW - Relational Databases

N1 - Investigates the role of information retrieval in the enhancement from database management to knowledge base management and considers the relationship between information retrieval and artificial intelligence. Highlights include unstructured databases; storage of internal forms of documents; an example with relational database operations; and intelligent information systems. (Contains 30 references.) (LRW)

ER -

TY - JOUR

ID - 110

A1 - Markoff,J.

T1 - The Fourth Law of Robotics

JF - Educom Review

Y1 - 1994/ /

VL - 29

SP - 45  
EP - 46  
RP - Not in File  
KW - Costs  
KW - Ethics  
KW - Free Enterprise System  
KW - Problems  
KW - Technological Advancement  
KW - Artificial intelligence  
KW - Computer Networks  
KW - Computer Software  
KW - Information Networks  
KW - Information Retrieval  
KW - Robotics  
KW - Economic Trends  
KW - Technological Growth  
KW - Internet  
N1 - Discusses intelligent software agents, or knowledge robots (knowbots), and the impact they have on the Internet. Topics addressed include ethical dilemmas; problems created by rapid growth on the Internet; new technologies that are amplifying growth; and a shift to a market economy and resulting costs. (LRW)  
ER -

TY - JOUR  
ID - 111  
A1 - Wang,P.  
A1 - Soergel,D.  
T1 - Beyond Topical Relevance: Document Selection Behavior of Real Users of IR Systems  
JF - Proceedings of the Asis Annual Meeting  
Y1 - 1993/ /  
VL - 30  
SP - 87  
EP - 92  
RP - Not in File  
KW - Selection  
KW - Artificial intelligence  
KW - Citations References  
KW - Computer System Design  
KW - Decision Making  
KW - Evaluation Criteria  
KW - Models  
KW - Online Searching  
KW - User Satisfaction Information  
KW - Value Judgment  
KW - Documentation  
KW - Information Retrieval  
KW - Relevance Information Retrieval  
KW - Cognitive Models  
KW - Document Handling  
N1 - Describes a study of users' document selection behavior that was conducted to build a tentative cognitive model of document selection behavior to be used in designing intelligent information retrieval systems. Topics addressed include studies of relevance and of decision making; value judgments; and document information elements considered during utility judging. (Contains 24 references.) (LRW)  
ER -

TY - JOUR  
ID - 112  
A1 - Rosner,M.  
A1 - Baj,F.  
T1 - Portable AI Lab for Teaching Artificial Intelligence  
JF - Education and Computing  
Y1 - 1993/ /  
VL - 8  
SP - 347  
EP - 355  
RP - Not in File  
KW - Artificial intelligence  
KW - Computer Software  
KW - Higher Education  
KW - Interdisciplinary Approach  
KW - Semantics  
KW - Theories  
KW - Computer Assisted Instruction  
KW - Computer Science Education  
KW - Augmented Transition Network Grammars  
KW - Examples  
KW - Natural Language Processing  
KW - Parsing  
KW - Documentation  
KW - Natural Language  
KW - Language Processing  
N1 - Describes the Portable AI Lab, a computing environment containing artificial intelligence (AI) tools, examples, and documentation for use with university AI courses. Two modules of the lab are highlighted: the automated theorem proving module and the natural language processing module, which includes augmented transition networks. (23 references) (LRW)  
ER -

TY - JOUR  
ID - 113  
A1 - Chen,Z.  
T1 - A Conceptual Model for Storage and Retrieval of Short Scientific Texts  
JF - Information Processing and Management  
Y1 - 1993/ /  
VL - 29  
SP - 209  
EP - 214  
RP - Not in File  
KW - Conceptual Models  
KW - Models  
KW - Artificial intelligence  
KW - Comparative Analysis  
KW - Science Materials  
KW - Database Management Systems  
KW - Information Retrieval  
KW - Information Storage  
KW - Natural Language Processing  
N1 - Describes a conceptual model for integrating short scientific texts, which extends classical text storage and retrieval. A brief comparison with related approaches such as case-based reasoning and classification-based reasoning is also provided. (13 references) (Author/KRN)

ER -

TY - JOUR

ID - 114

A1 - Chen,Z.

T1 - Let Documents Talk to Each Other: A Computer Model for Connection of Short Documents

JF - Journal of Documentation

Y1 - 1993/ /

VL - 49

SP - 44

EP - 54

RP - Not in File

KW - Computer Models

KW - Models

KW - Artificial intelligence

KW - Comparative Analysis

KW - Information Retrieval

KW - Documentation

KW - Scientific and Technical Information

KW - Document Analysis

KW - Examples

KW - Prototypes

KW - Connectivity

N1 - Discusses the integration of scientific texts through the connection of documents and describes a computer model that can connect short documents. Information retrieval and artificial intelligence are discussed; a prototype system of the model is explained; and the model is compared to other computer models. (17 references) (LRW)

ER -

TY - JOUR

ID - 115

A1 - Suthers,D.D.

T1 - Automated Explanation for Educational Applications

JF - Journal of Computing in Higher Education

Y1 - 1991/ /

VL - 3

SP - 36

EP - 61

RP - Not in File

KW - Classroom Techniques

KW - Computer Software

KW - Higher Education

KW - Innovation

KW - Research and Development

KW - Science Instruction

KW - Artificial intelligence

KW - Computer Oriented Programs

KW - Educational Technology

KW - Information Retrieval

KW - Programing

KW - Explanations

N1 - Artificial intelligence techniques available for generating explanations for teaching purposes are surveyed, and the way in which they are combined in a computer program that provides explanations is

described. The program responds to questions in the physical sciences. Potential contributions of this technology to computer-based education are discussed. (Author/MSE)

ER -

TY - JOUR

ID - 116

A1 - Murray,A.J.

T1 - Cultivating the Electronic Heartland: Preparing for the Coming Knowledge Harvest

JF - Proceedings of the Asis Mid Year Meeting

Y1 - 1992/ /

SP - 241

EP - 252

RP - Not in File

KW - Artificial intelligence

KW - Futures of Society

KW - Problems

KW - Research Needs

KW - Computer Networks

KW - Computer System Design

KW - Information Dissemination

KW - Information Networks

KW - Information Retrieval

KW - Man Machine Systems

KW - Internet

KW - Knowledge Bases

KW - Network Interfaces

KW - Prototypes

KW - Knowledge Acquisition

KW - Tests

N1 - Discusses knowledge acquisition and dissemination in a network environment. Obstacles to the electronic exchange of knowledge and functional requirements for knowledge acquisition, dissemination, and management are summarized. A prototype intelligent Internet interface that mediates knowledge acquisition and dissemination and preliminary test results of the system are described. (15 references) (MES)

ER -

TY - JOUR

ID - 117

A1 - Findler,N.V.

A1 - And Others

T1 - SHRIF, a General-Purpose System for Heuristic Retrieval of Information and Facts, Applied to Medical Knowledge Processing

JF - Information Processing and Management

Y1 - 1992/ /

VL - 28

SP - 219

EP - 240

RP - Not in File

KW - Heuristics

KW - Artificial intelligence

KW - Man Machine Systems

KW - Medicine

KW - Search Strategies

KW - Semantics



KW - Syntax  
KW - Computer System Design  
KW - Information Retrieval  
KW - Language Processing  
KW - Cluster Based Retrieval  
KW - Knowledge Bases  
KW - Medical Information Systems  
N1 - Describes SHRIF, a System for Heuristic Retrieval of Information and Facts, and the medical knowledge base that was used in its development. Highlights include design decisions; the user-machine interface, including the language processor; and the organization of the knowledge base in an artificial intelligence (AI) project like this one. (57 references) (LRW)  
ER -

TY - JOUR  
ID - 118  
A1 - Gauch,S.  
T1 - Intelligent Information Retrieval: An Introduction  
JF - Journal of the American Society for Information Science  
Y1 - 1992/ /  
VL - 43  
SP - 175  
EP - 182  
RP - Not in File  
KW - Information Retrieval  
KW - Bibliographic Databases  
KW - Cancer  
KW - Computer Science  
KW - Expert systems  
KW - Full Text Databases  
KW - Pollution  
KW - Public Libraries  
KW - Search Strategies  
KW - Artificial intelligence  
KW - Online Systems  
KW - Users Information  
KW - Corporations  
KW - Gardening  
KW - Knowledge Representation  
KW - MEDLINE  
KW - Natural Language Processing  
KW - Experts  
N1 - Discusses the application of artificial intelligence to online information retrieval systems and describes several systems: (1) CANSEARCH, from MEDLINE; (2) Intelligent Interface for Information Retrieval (I3R); (3) Gausch's Query Reformulation; (4) Environmental Pollution Expert (EP-X); (5) PLEXUS (gardening); and (6) SCISOR (corporate information). Knowledge representation and sample interactions are discussed for each system. (25 references) (LRW)  
ER -

TY - JOUR  
ID - 119  
A1 - Chen,H.  
A1 - Dhar,V.  
T1 - Cognitive Process as a Basis for Intelligent Retrieval Systems Design  
JF - Information Processing and Management

Y1 - 1991//

VL - 27

SP - 405

EP - 432

RP - Not in File

KW - Classification

KW - Information systems

KW - Information Technology

KW - Models

KW - Online Searching

KW - Search Strategies

KW - Artificial intelligence

KW - Cognitive Processes

KW - Computer System Design

KW - Information Retrieval

KW - Online Systems

N1 - Two studies of the cognitive processes involved in online document-based information retrieval were conducted. These studies led to the development of five computational models of online document retrieval which were incorporated into the design of an "intelligent" document-based retrieval system. Both the system and the broader implications of this research for information retrieval systems are discussed. (52 references) (MAB)

ER -

TY - JOUR

ID - 120

A1 - Jones,K.S.

T1 - The Role of Artificial Intelligence in Information Retrieval

JF - Journal of the American Society for Information Science

Y1 - 1991//

VL - 42

SP - 558

EP - 565

RP - Not in File

KW - Artificial intelligence

KW - Information Retrieval

KW - Abstracting

KW - Man Machine Systems

KW - Search Strategies

KW - Systems Development

KW - Examples

KW - Knowledge Bases

N1 - Discusses artificial intelligence (AI) and considers four potential roles for AI in information retrieval (IR): (1) information characterization, i.e., building a knowledge base; (2) information seeking, i.e., search formulation; (3) support functions, including abstracting; and (4) systems integration. Three examples are given that show how AI has been used in IR. (seven references) (LRW)

ER -

TY - BOOK

ID - 121

A1 - Moline,J.

T1 - The User Interface: A Hypertext Model Linking Art Objects and Related Information

Y1 - 1991//

RP - Not in File

KW - Hypertext

KW - Models  
KW - Artificial intelligence  
KW - Computer Software  
KW - Databases  
KW - Man Machine Systems  
KW - Microcomputers  
KW - User Needs Information  
KW - Computer System Design  
KW - Expert systems  
KW - Hypermedia  
KW - Information Retrieval  
KW - Multimedia Materials  
KW - Numismatics  
KW - HyperCard  
KW - Experts  
KW - Information Sources  
KW - Abstracts  
KW - Expert System Shells  
KW - Prototypes  
KW - Knowledge Bases

N1 - This report presents a model combining the emerging technologies of hypertext and expert systems. Hypertext is relatively unexplored but promises an innovative approach to information retrieval. In contrast, expert systems have been used experimentally in many different application areas ranging from medical diagnosis to oil exploration. The information sources used in this model are limited to databases of images (object surrogates and maps), object descriptions, document surrogates (abstracts, references, excerpts), genealogical trees, and time lines of historical events. In addition to hypertext the model uses an expert system shell to generate new information from data entered at a terminal or imported from a database. Sample uses of the prototype based on the model are studied to determine the range of activities that can be performed. Apple's HyperCard and Cognition Technology's MacSMARTS are used with a knowledge base created by the author limited to Arab numismatics. Numismatists work with coins and coin surrogates. These objects contain information that is significant in isolation but is even more important when aggregated. Further, a wealth of information related to each coin ranging from historical references to analyses by art historians needs to be linked to the specific objects. The prototype developed from the model is used to show how hypertext facilitated the resolution of some specific information needs. (16 references) (Author)

ER -

TY - JOUR

ID - 122

A1 - Solomon,P.

T1 - On the Dynamics of Information System Use: From Novice to ?

JF - Proceedings of the Asis Annual Meeting

Y1 - 1992/ /

VL - 29

SP - 162

EP - 170

RP - Not in File

KW - Information systems

KW - Elementary Education

KW - Grade 1

KW - Information Retrieval

KW - Learning Processes

KW - Learning Resources Centers

KW - Longitudinal Studies

KW - School Libraries  
KW - Search Strategies  
KW - Use Studies  
KW - Library Catalogs  
KW - Online Catalogs  
KW - Skill Development  
KW - Users Information  
KW - Dynamics  
KW - Experts

N1 - Explores the dynamics of information system use to understand the requirements of intelligent information systems. Highlights include the novice/expert distinction and the development of skills from novice to expert; methods for understanding dynamics; and a study of elementary school children's use of an online public access catalog in grades 1-6. (22 references) (LRW)

ER -

TY - JOUR

ID - 123

A1 - Solomon,P.

T1 - On the Dynamics of Information System Use: From Novice to ?

JF - Proceedings of the Asis Annual Meeting

Y1 - 1992/ /

VL - 29

SP - 162

EP - 170

RP - Not in File

KW - Dynamics

KW - Information systems

KW - Elementary Education

KW - Grade 1

KW - Information Retrieval

KW - Learning Processes

KW - Learning Resources Centers

KW - Longitudinal Studies

KW - School Libraries

KW - Search Strategies

KW - Use Studies

KW - Library Catalogs

KW - Online Catalogs

KW - Skill Development

KW - Users Information

KW - Experts

N1 - Explores the dynamics of information system use to understand the requirements of intelligent information systems. Highlights include the novice/expert distinction and the development of skills from novice to expert; methods for understanding dynamics; and a study of elementary school children's use of an online public access catalog in grades 1-6. (22 references) (LRW)

ER -

TY - JOUR

ID - 124

A1 - Zabezhailo,M.I.

A1 - Finn,V.K.

T1 - Intelligent Information Systems

JF - International Forum on Information and Documentation

Y1 - 1996/ /

VL - 21  
SP - 21  
EP - 31  
RP - Not in File  
KW - Information systems  
KW - Computation  
KW - Computer Oriented Programs  
KW - Ecology  
KW - Futures of Society  
KW - Information Technology  
KW - Information Transfer  
KW - Knowledge Representation  
KW - Problem Solving  
KW - Artificial intelligence  
KW - Data Processing  
KW - Expert systems  
KW - Information Retrieval  
KW - Information Storage  
KW - Data Flow  
KW - Data Warehousing  
KW - Examples  
KW - Standardization  
KW - Research and Development  
N1 - An Intelligent Information System (IIS) uses data warehouse technology to facilitate the cycle of data and knowledge processing, including input, standardization, storage, representation, retrieval, calculation, and delivery. This article provides an overview of IIS products and artificial intelligence systems, illustrates examples of IIS applications in ecology, and identifies paths of research and development. (LAM)  
ER -

TY - JOUR  
ID - 125  
A1 - Chen,Z.  
T1 - Enhancing Database Management to Knowledge Base Management: The Role of Information Retrieval Technology  
JF - Information Processing and Management  
Y1 - 1994/ /  
VL - 30  
SP - 419  
EP - 435  
RP - Not in File  
KW - Databases  
KW - Database management  
KW - Knowledge Bases  
KW - Information Retrieval  
KW - Research Needs  
KW - Artificial intelligence  
KW - Database Management Systems  
KW - Information systems  
KW - Conceptual Models  
KW - Examples  
KW - Knowledge Acquisition  
KW - Relational Approach Information Retrieval  
KW - Relational Databases

N1 - Investigates the role of information retrieval in the enhancement from database management to knowledge base management and considers the relationship between information retrieval and artificial intelligence. Highlights include unstructured databases; storage of internal forms of documents; an example with relational database operations; and intelligent information systems. (Contains 30 references.) (LRW)  
ER -

TY - JOUR

ID - 126

A1 - Wang,P.

A1 - Soergel,D.

T1 - Beyond Topical Relevance: Document Selection Behavior of Real Users of IR Systems

JF - Proceedings of the Asis Annual Meeting

Y1 - 1993/ /

VL - 30

SP - 87

EP - 92

RP - Not in File

KW - Selection

KW - Artificial intelligence

KW - Citations References

KW - Computer System Design

KW - Decision Making

KW - Evaluation Criteria

KW - Models

KW - Online Searching

KW - User Satisfaction Information

KW - Value Judgment

KW - Documentation

KW - Information Retrieval

KW - Relevance Information Retrieval

KW - Cognitive Models

KW - Document Handling

N1 - Describes a study of users' document selection behavior that was conducted to build a tentative cognitive model of document selection behavior to be used in designing intelligent information retrieval systems. Topics addressed include studies of relevance and of decision making; value judgments; and document information elements considered during utility judging. (Contains 24 references.) (LRW)

ER -

TY - JOUR

ID - 127

A1 - Solomon,P.

T1 - On the Dynamics of Information System Use: From Novice to ?

JF - Proceedings of the Asis Annual Meeting

Y1 - 1992/ /

VL - 29

SP - 162

EP - 170

RP - Not in File

KW - Dynamics

KW - Information systems

KW - Elementary Education

KW - Grade 1

KW - Information Retrieval

KW - Learning Processes

KW - Learning Resources Centers

KW - Longitudinal Studies

KW - School Libraries

KW - Search Strategies

KW - Use Studies

KW - Library Catalogs

KW - Online Catalogs

KW - Skill Development

KW - Users Information

KW - Experts

N1 - Explores the dynamics of information system use to understand the requirements of intelligent information systems. Highlights include the novice/expert distinction and the development of skills from novice to expert; methods for understanding dynamics; and a study of elementary school children's use of an online public access catalog in grades 1-6. (22 references) (LRW)

ER -

TY - JOUR

ID - 128

A1 - Flagg,G.

T1 - Rocky Mountain High-Tech: LITA's Denver Conference

JF - American Libraries

Y1 - 1992/ /

VL - 23

SP - 836

EP - 838

RP - Not in File

KW - Conferences

KW - Artificial intelligence

KW - Computer Networks

KW - Females

KW - Information Networks

KW - Information Technology

KW - Library Associations

KW - Library Automation

KW - American Library Association

KW - Electronic Libraries

KW - Internet

KW - Library and Information Technology Assoc ALA

KW - Virtual Reality

KW - Expert systems

KW - Automation

AV - ITESM-Centro de Información Biblioteca y Educational Resources Information Center de SilverPlatter

N1 - Reports on the third national conference of the American Library Association's Library and Information Technology Association, which was held September 13-16, 1992, in Denver, Colorado. Program highlights are summarized, including virtual communities, virtual reality, the electronic library, artificial intelligence and expert-systems, navigating the Internet, and women in automation. (MES)

ER -

TY - JOUR

ID - 130

A1 - Borah,E.G.

T1 - Beyond Navigation: Librarians as Architects of Information Tools

JF - Research Strategies

Y1 - 1992/ /  
VL - 10  
SP - 138  
EP - 142  
RP - Not in File  
KW - Librarians  
ER -

TY - BOOK  
ID - 131  
A1 - Alberico,R.  
A1 - Micco,M.  
T1 - Expert systems for reference and information retrieval  
Y1 - 1990/ /  
SP - xiii  
EP - 395  
RP - Not in File  
CY - Westport  
PB - Meckler  
KW - Reference Services  
KW - Expert systems  
KW - Information Retrieval  
U1 - III  
U2 - Sala 2ndo piso  
U3 - Z 678.93.E93 A4 1990  
T3 - Supplements to computers in libraries; 10  
AV - ITESM-Centro de Información Biblioteca  
N1 - Incluye referencias bibliográficas e índice temático  
ER -

TY - BOOK  
ID - 132  
Y1 - 1997/ /  
RP - Not in File  
ER -

TY - BOOK  
ID - 133  
T1 - Expert Systems in reference services.  
Y1 - 1989/ /  
SP - xvii  
EP - 238  
RP - Not in File  
A2 - Roysdon,C.  
A2 - White,H.  
CY - New York  
PB - Haworth Press  
KW - Experts  
KW - Expert systems  
KW - Reference Services  
KW - Librarians  
U1 - ill  
U2 - sala 2ndo. piso  
U3 - z 678.93.E93 E 96 1989



T3 - The reference librarian; 23  
AV - ITESM-Centro de Información Biblioteca  
N1 - Incluye bibliografía  
ER -